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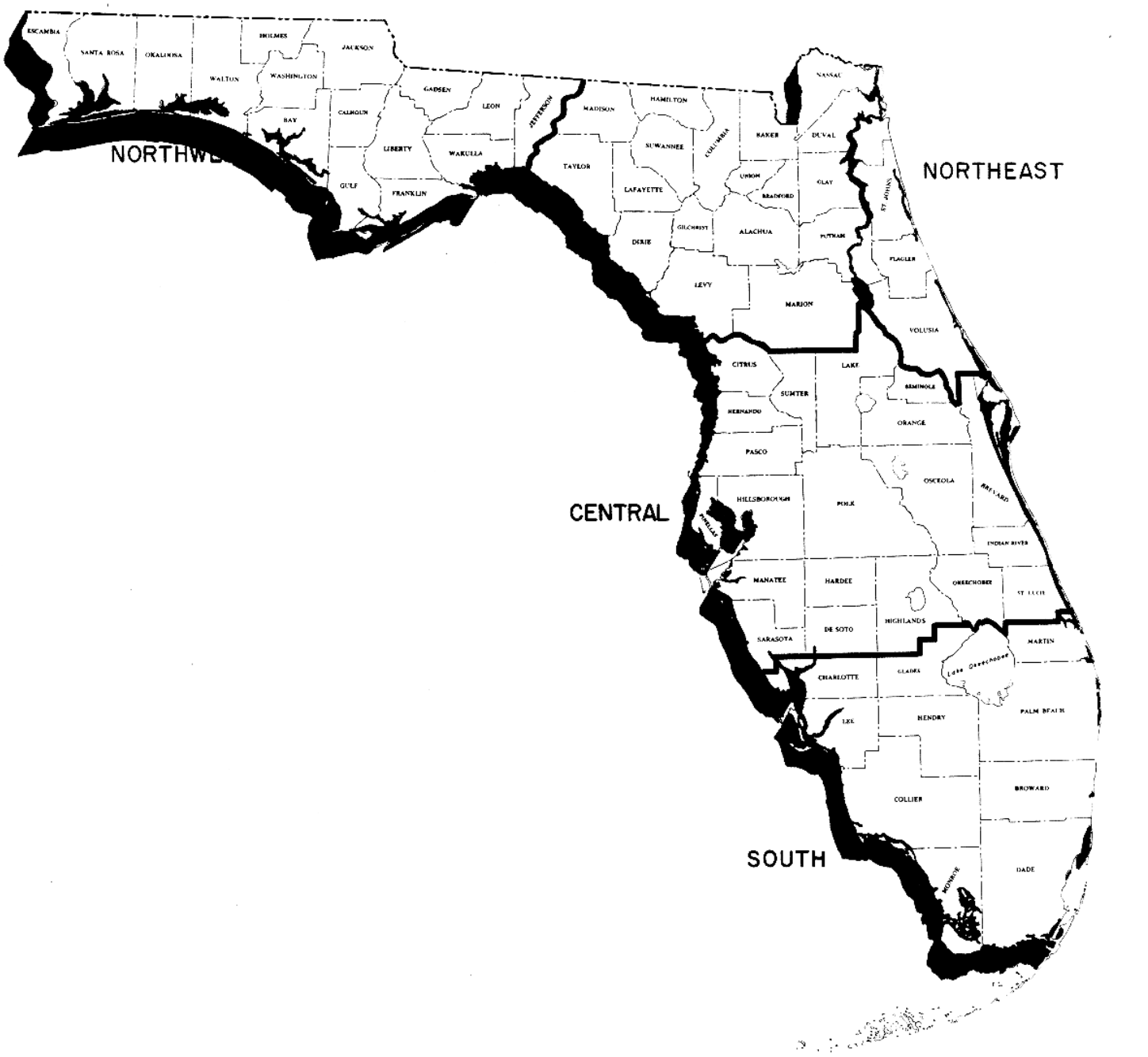
Forest Statistics for Florida, 1995

Mark J. Brown



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Forest Statistics for Florida, 1995

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Foreword

This report highlights the principal findings of the seventh forest survey of Florida. Field work began in June 1993 and was completed in May 1995. Six previous surveys, completed in 1936, 1949, 1959, 1970, 1980, and 1987 provide statistics for measuring changes and trends over the past 59 years. This report primarily emphasizes the changes and trends since 1987.

Periodic surveys of forest resources are authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. These surveys are a continuing, nationwide undertaking by the Regional Experiment Stations of the USDA Forest Service. In the Southern United States, these surveys are conducted by two Forest Inventory and Analysis (FIA) Research Work Units at the Southern Research Station, Asheville, NC. The two FIA units, one located in Starkville, MS, and the other in Asheville, NC, are responsible for inventories of 13 Southern States and the Commonwealth of Puerto Rico. The primary objective of these surveys is to periodically inventory and evaluate all forest and related resources. These multiresource data help provide a basis for formulating forest policies and programs and for the orderly development and use of the resources. This report deals only with the extent and condition of forest land, associated timber volumes, and rates of timber growth, mortality, and removals.

Additional information about any aspect of this survey may be obtained from:

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Acknowledgments

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[a] All tables in this report are available in Microsoft® Excel workbook files. These files will be supplied, upon request, on 3½- or 5¼-inch diskettes.

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Introduction

This report summarizes results from a 1995 inventory of the forest resources of Florida. Current estimates of forest area, related attributes, and timber volumes are presented and compared with earlier estimates. Timber volumes reported in previous bulletins have been adjusted for valid comparisons with current assessments. Average annual rates of growth, removals, and mortality since the previous inventory in 1987 have been summarized.

Highlights

Since the sixth inventory of Florida's forest resources was completed in 1987—

! *area of timberland decreased more than 2 percent to less than 14.7 million acres.* The 332,000-acre net loss resulted from the diversion of 916,000 acres of timberland to other land uses, less 584,000 acres returning to timberland. More than one-half of the diversions went into urban and related land uses and one-fourth went into agricultural uses. One-sixth of the diverted timberland was reclassified as reserved timberland and withdrawn from timber harvesting, all within the public ownership category. New areas of water accounted for the remainder of the diversions. Most (95 percent) of the additions to timberland came from nonforest sources, primarily idle pasture and cropland. Timberland decreased throughout the State's peninsula but increased in the panhandle.

! *area of publicly owned timberland has increased 16 percent to more than 2.8 million acres, the second highest total of any Southern State.* Florida ranks first in the South in the amount of public timberland that is State-owned. Over four-fifths of the increase in public timberland was due to acquisitions by State agencies. Public ownerships now account for 19 percent of Florida's timberland. In contrast, timberland controlled by forest industry decreased 16 percent to 4.6 million acres. Forest industry presently controls 31 percent of Florida's timberland. Timberland under nonindustrial private forest (NIPF) ownerships increased 2 percent to 7.2 million acres. Nonindustrial private forest lands account for 49 percent of Florida's timberland, the lowest proportion of any Southern State. The NIPF category increase resulted solely from gains in the corporate faction, as both the farmer-owned and the other individual groups lost timberland acreage. Farmers now hold less than 1.0 million acres of timberland, other individuals nearly 3.6 million acres, and other corporate 2.6 million acres.

! *area in pine plantations continues to increase, this time by 15 percent to more than 4.6 million acres.* Pine plantations now account for almost one-third of Florida's timberland, the highest proportion of any Southern State. The area in natural pine stands continues to decrease, most recently by 20 percent to 2.8 million acres. Natural pine stands currently represent 19 percent of the State's timberland. Oak-pine stands have increased 22 percent to nearly 1.5 million acres, accounting for 10 percent of all timberland. Upland hardwood stands increased as well, by 7 percent to 2.0 million acres, making up 14 percent of the total timberland. Lowland hardwood stands decreased 15 percent to 3.7 million acres; they comprise one-fourth of Florida's timberland.

! *pine forest types are still predominantly slash pine, despite a 1 percent decline to 5.1 million acres.* Loblolly pine type increased by 40 percent to 0.8 million acres, superseding longleaf pine type as the second most prevalent pine type. Area of longleaf pine type continues to shrink and is now third in abundance after a 22 percent reduction to 0.7 million acres. Sand pine type increased in area by 4 percent to more than 0.6 million acres.

! *area receiving a final harvest and remaining in timberland averaged nearly one-quarter million acres annually.* Almost four-fifths of these final harvests took place in pine stands, with pine plantations accounting for 47 percent and natural pine stands 32 percent. Just over one-fifth of the final harvests occurred in hardwood stands, with oak-pine stands accounting for 5 percent, upland hardwood stands nearly 3 percent, and lowland hardwood stands 13 percent. More than one-half of the final harvests occurred on lands controlled by forest industry. Nonindustrial private forest lands accounted for 39 percent of the final harvests, and public lands the remaining 8 percent. In addition to these final harvests, partial harvests and thinnings accounted for an average of 63,000 acres annually. Fire, insects, disease, weather, and other natural agents damaged over 100,000 acres each year.

! *an average of 311,000 acres were artificially and naturally regenerated each year.* Four-fifths of the regeneration resulted in the establishment of new pine stands, an area 26 percent larger than the pine stand acreage harvested annually. Over three-fourths of the

regeneration was accomplished by artificial means. Forest industry lands accounted for 53 percent of the artificial regeneration, NIPF lands for 40 percent, and public lands 7 percent. In contrast, NIPF lands accounted for nearly 71 percent of the natural regeneration, forest industry for 21 percent, and public lands 8 percent.

! *volume of softwood growing stock increased nearly 5 percent to 9.4 billion cubic feet.* Only the 10-, 12-, and 22-inch and larger softwood diameter classes decreased in volume. Volume changes by ownership parallel acreage changes by ownership. Volume of softwood growing stock increased 26 percent on public land to 2.5 billion cubic feet, and 8 percent on NIPF land to nearly 4.3 billion cubic feet. In contrast, inventory of softwood growing stock on forest industry land decreased 14 percent to 2.6 billion cubic feet. Softwood species increasing in volume included slash pine by 10 percent to 4.3 billion cubic feet, loblolly pine by 33 percent to 0.9 billion cubic feet, and sand pine by 17 percent to 490 million cubic feet. Softwood species decreasing in volume included longleaf pine by 10 percent to less than 1.1 billion cubic feet, pond pine by 3 percent to 160 million cubic feet, and the cypresses by 6 percent to 2.3 billion cubic feet. Pine plantations contain 29 percent of the softwood growing stock volume, natural pine stands 33 percent, lowland hardwood stands 27 percent, oak-pine stands 9 percent, and upland hardwood stands 2 percent. Volume of softwood sawtimber increased 6 percent to 28.3 billion board feet.

! *volume of hardwood growing stock increased almost 10 percent to more than 5.9 billion cubic feet.* All hardwood diameter classes increased in volume except those above 20 inches. By ownership, hardwood volume changes were driven by the major shifts in acreage described earlier. Volume of hardwood growing stock increased 45 percent on public land to 1.3 billion cubic feet and 9 percent on NIPF land to 3.2 billion cubic feet. Hardwood growing stock volume decreased 9 percent to 1.4 billion cubic feet on forest industry land. About 69 percent of the hardwood growing stock volume is located in lowland hardwood stands, nearly 19 percent is in upland hardwood stands, 8 percent in oak-pine stands, and the remainder in pine stands. Collectively, the oaks account for 31 percent of the hardwood inventory, and increased 15 percent to 1.8 billion cubic feet. Tupelo and blackgum increased slightly to 1.5 billion cubic feet. Bay and magnolia species increased 16 percent to less than 0.9 billion cubic feet. Sweetgum increased 11 percent to 563 million cubic feet, and soft maple increased 17 percent to 445 million cubic feet. Ash decreased in volume by 5 percent to 339 million cubic feet. Volume of hardwood sawtimber increased 14 percent to 17.0 billion board feet.

! *net annual growth of softwood growing stock increased 9 percent to 532 million cubic feet.* Pine plantations provided 62 percent of the softwood growth. Nonindustrial private forest and forest industry lands each accounted for 43 percent of the softwood growth, and public lands contributed 14 percent. Softwood growth increased 24 percent on NIPF land and 1 percent on public land, while decreasing 1 percent on forest industry land. Overall, softwood growth exceeds softwood removals by 13 percent. Although softwood growth exceeds removals in each ownership category, the excess ranges from 36 percent on public land to 15 percent on NIPF land to 4 percent on forest industry land. Net annual growth of softwood sawtimber decreased 5 percent to 1.4 billion board feet. Hardwood net annual growth increased 14 percent to 161 million cubic feet. About 59 percent of the hardwood growth occurred in lowland hardwood stands. Nonindustrial private forest land accounted for 58 percent of the hardwood growth, forest industry 25 percent, and public 17 percent. Hardwood growth increased 14 percent on NIPF land, 4 percent on forest industry land, and 35 percent on public land. Overall, hardwood growth exceeds removals by 83 percent. On NIPF and public lands, hardwood growth is approximately double removals, but the excess is under 50 percent on lands controlled by forest industry. Net annual growth of hardwood sawtimber increased 13 percent to 543 million board feet.

! *annual removals of softwood growing stock changed little at 473 million cubic feet.* Almost half of the softwood removals came from pine plantations. Forest industry land supplied 46 percent of the State's softwood removals, NIPF land 42 percent, and public land 12 percent. Softwood removals decreased 3 percent on forest industry land and less than 1 percent on NIPF land, but increased 13 percent on public land. The increase on public land occurred primarily on State properties. Two-thirds of the softwood volume removed came from trees 10 inches in diameter and smaller. Removals of softwood sawtimber decreased 4 percent to 1.2 billion board feet. In contrast to softwoods, annual removals of hardwood growing stock increased 33 percent to 88 million cubic feet. Two-thirds of the hardwood removals came from lowland hardwood stands. Nonindustrial private forest land provided 54 percent of the hardwood removals, forest industry 31 percent, and 15 percent came from public land. Hardwood removals decreased 14 percent on forest industry land but increased 44 percent on NIPF land and more than tenfold on public land. The increase on public land was primarily confined to State agencies. Over one-half of the hardwood growing stock removals came from trees between 10 and 16 inches in diameter. Removals of hardwood sawtimber increased 48 percent to 265 million board feet.

! *annual mortality of softwood growing stock decreased 14 percent to 54 million cubic feet.* Mortality reduced gross growth of softwoods by 9 percent. The leading identifiable causes of mortality to softwoods in descending order were weather, insects, disease, and fire. Nonindustrial private forest and forest industry lands showed decreases in softwood mortality, while public lands showed increases. Most of the increase on public land occurred on State lands. Shifts in ownership patterns as a result of land acquisition by State agencies influenced the recorded increase. Annual mortality of softwood growing stock included 174 million board feet of sawtimber. Annual mortality of hardwood growing stock decreased 13 percent to 52 million cubic feet. Mortality reduced gross growth of hardwoods by 24 percent. Weather, followed by disease and suppression were the leading identifiable causes of mortality in hardwoods. Hardwood mortality decreased on NIPF and forest industry lands while increasing on public lands (primarily State land). Annual mortality of hardwood growing stock included 157 million board feet of sawtimber.

How the Inventory is Made

Procedures used in the seventh inventory of the forest resources in Florida included seven basic steps.

1. In the Northwest and Northeast units, estimates of forest and nonforest areas were based on the ground classification of 85,107 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 6,513 of the 16-point clusters was ground checked, and a linear regression was fitted to the data to develop the relationship between the photo and ground classification of the subsample. This procedure provides a means for adjusting the initial estimates of area for change in land use since date of photography and for photo misclassification. In the Central and South units, estimates of forest and nonforest areas were based on the ground classification of 6,030 sample clusters systematically distributed across the landscape. At each of the sample clusters, 16 points were classified as to land use.

2. Estimates of timber volume and forest classification were based on measurements recorded at 5,424 ground sample locations systematically distributed on timberland. The plot design at each location was based on a cluster of 10 points. In most cases, variable plots, established by using a basal-area factor of 37.5 square feet per acre, were systematically spaced within a single forest condition at 5 of the 10 cluster points. Trees less than 5 inches d.b.h. were tallied on a fixed-radius plot around each point center.

3. Equations prepared from detailed measurements collected on standing trees in Florida, and similar measurements taken throughout the Southeast, were used to compute the volume of individual tally trees. A mirror caliper and sectional aluminum poles were used to obtain the additional measurements required to construct volume equations. Forest biomass estimates were made from equations developed by the Utilization of Southern Timber Research Work Unit, Southern Research Station, Athens, GA.

4. Felled trees were measured at 50 active cutting operations. These data will supplement the standing-tree volume data and be used to generate utilization factors for product and species groups.

5. Estimates of growth, removals, and mortality were determined from the remeasurement of 5,591 permanent sample plots established in the sixth survey.

6. Ownership information was collected from correspondence, public records, and local contacts. In counties where the sample missed a particular ownership class, temporary sample plots were added.

7. All field data were sent to Asheville for editing and were entered into disk and magnetic-tape storage for processing. Final estimates were based on statistical summaries of the data.

Statistical Reliability

FIA inventories employ sampling methods designed to achieve reliable statistics at the Survey Unit and State levels. A measure of reliability of inventory statistics is provided by sampling errors. These sampling errors mean that the chances are two out of three that the true population value is within the limits indicated by a confidence interval. Sampling errors (in percent) and associated confidence intervals around the sample estimates for timberland area, inventory volumes, and components of change are presented in the following table.

Item	Sample estimate and confidence interval	Sampling error (percent)
Timberland *(1,000 acres)*	14,650.7 ± 58.6	0.40
Growing stock *(M ft³)*		
Inventory	15,366.4 ± 253.5	1.65
Net annual growth	692.6 ± 11.9	1.72
Annual removals	560.7 ± 20.1	3.59
Annual mortality	105.7 ± 4.8	4.55
Sawtimber *(M fbm)*		
Inventory	45,287.2 ± 969.1	2.14
Net annual growth	1,965.2 ± 43.2	2.20
Annual removals	1,482.9 ± 64.8	4.37
Annual mortality	331.2 ± 20.1	6.06

Sampling error increases as the area or volume considered decreases in magnitude. Sampling errors and associated confidence intervals are often unacceptably high for small components of the total resource. Statistical confidence may be computed for any subdivision of Survey Unit or State totals using the following formula. Sampling errors obtained from this method are only approximations of reliability because this process assumes constant variance across all subdivisions of totals.

$$SE_s = SE_t \frac{\sqrt{X_t}}{\sqrt{X_s}},$$

where

SE_s = sampling error for subdivision of Survey Unit or State total,

SE_t = sampling error for Survey Unit or State total,

X_s = sum of values for the variable of interest (area or volume) for subdivision of Survey Unit or State,

X_t = total area or volume for Survey Unit or State.

For example, the estimate of sampling error for growing-stock volume on other private timberland is computed as:

$$SE_s = 1.65 \frac{\sqrt{15{,}366.4}}{\sqrt{7{,}477.4}} = 2.37$$

Thus, the sampling error is 2.37 percent, and the resulting confidence interval (two times out of three) for growing-stock inventory on other private timberland is 7,477.4 ± 177.2 million cubic feet.

County statistics are provided, but users are cautioned that the accuracy of individual county data is highly variable. Individual county statistics are provided so any combination of counties may be added together until the totals are large enough to meet the desired degree of reliability. Sampling errors for key resource items for individual counties are provided in the following table.

Sampling errors for county and unit totals, in terms of one standard error, Florida, 1995

County	Timberland area	Cubic-foot volume of growing stock			County	Timberland area	Cubic-foot volume of growing stock		
		Inventory	Growth	Removals			Inventory	Growth	Removals
		Sampling error[a]					*Sampling error*[a]		
Alachua	2.15	10.67	9.24	21.30	Lee	15.41	35.79	46.89	72.91
Baker	0.78	10.38	7.97	21.97	Leon	1.73	8.74	10.56	27.09
Bay	0.93	13.77	10.36	16.14	Levy	1.49	8.24	8.57	18.96
Bradford	1.68	16.32	13.83	40.41	Liberty	0.35	7.67	10.24	22.41
Brevard	11.65	25.73	25.62	52.59	Madison	1.98	13.53	12.08	20.58
Broward	0.00	0.00	0.00	0.00	Manatee	13.51	30.44	31.14	85.10
Calhoun	1.27	11.38	11.59	22.31	Marion	1.40	8.12	7.97	18.24
Charlotte	22.20	40.62	58.14	103.71	Martin	19.19	32.02	49.41	0.00
Citrus	5.89	16.55	16.99	29.41	Monroe	0.00	0.00	0.00	0.00
Clay	2.36	10.92	10.33	24.59	Nassau	0.97	10.17	8.72	20.12
Collier	3.05	14.78	42.63	44.92	Okaloosa	1.48	8.59	9.41	27.97
Columbia	1.31	9.17	9.17	21.02	Okeechobee	15.03	26.45	25.11	74.50
Dade	0.00	0.00	0.00	0.00	Orange	8.28	17.25	17.27	38.59
De Soto	16.18	32.08	33.11	58.33	Osceola	7.96	15.05	20.41	68.20
Dixie	0.68	8.08	7.27	17.54	Palm Beach	0.00	0.00	0.00	0.00
Duval	2.71	10.56	10.08	32.48	Pasco	7.65	18.17	32.33	32.64
Escambia	1.94	10.12	9.48	23.70	Pinellas	48.86	111.25	110.69	129.56
Flagler	1.21	11.96	9.09	21.21	Polk	6.88	14.68	13.86	35.01
Franklin	0.76	11.51	11.01	32.35	Putnam	1.66	12.24	12.83	23.46
Gadsden	1.63	11.81	10.30	31.06	Santa Rosa	0.99	8.30	7.81	17.20
Gilchrist	3.25	17.24	17.69	37.24	Sarasota	14.10	26.91	28.46	41.76
Glades	12.65	37.68	30.44	38.08	Seminole	10.59	21.51	27.38	74.32
Gulf	1.61	17.17	15.60	26.82	St. Johns	1.96	10.98	10.81	21.48
Hamilton	2.32	11.72	11.77	24.32	St. Lucie	21.31	39.04	32.71	51.72
Hardee	12.07	22.24	22.28	100.73	Sumter	7.78	14.39	19.92	46.16
Hendry	14.60	34.83	37.72	46.06	Suwannee	3.02	11.93	11.66	32.91
Hernando	6.73	14.83	20.67	43.66	Taylor	0.68	10.18	7.77	13.05
Highlands	12.60	26.02	35.64	77.18	Union	2.33	16.37	14.54	39.66
Hillsborough	10.78	20.78	21.70	59.70	Volusia	1.45	8.51	15.51	22.93
Holmes	2.60	15.08	14.91	35.18	Wakulla	1.04	10.68	14.21	27.32
Indian River	22.59	46.14	121.74	103.76	Walton	1.31	8.60	9.12	22.35
Jackson	2.11	12.90	11.47	17.91	Washington	1.43	11.87	11.16	30.51
Jefferson	1.42	10.47	11.21	23.85					
Lafayette	1.31	12.77	11.12	18.61	Total	0.40	1.65	1.72	3.59
Lake	5.94	13.03	20.98	40.23					

[a] By random-sampling formula (in percent).

Definitions

Basal area. The area in square feet of the cross section at breast height of a single tree or of all the trees in a stand, usually expressed in square feet per acre.

Biomass. The aboveground green weight of solid wood and bark in live trees 1.0-inch d.b.h. and larger from the ground to the tip of the tree. All foliage is excluded. The weight of wood and bark in lateral limbs, secondary limbs, and twigs under 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

Bole. That portion of a tree between a 1-foot stump and a 4-inch top diameter outside bark (d.o.b.) in trees 5.0 inches d.b.h. and larger.

Broad management class. A classification of timberland based on forest type and stand origin.

Pine plantation. Stands that have been artificially regenerated by planting or direct seeding and with a southern yellow pine, white pine-hemlock, or other softwood forest type.

Natural pine. Stands that have not been artificially regenerated and with a southern yellow pine, white pine-hemlock, or other softwood forest type.

Oak-pine. Stands with a forest type of oak-pine.

Upland hardwood. Stands with a forest type of oak-hickory, chestnut oak, southern scrub oak, or maple-beech-birch.

Lowland hardwood. Stands with a forest type of oak-gum-cypress, elm-ash-cottonwood, palm, or other tropical.

Census water. Streams, sloughs, estuaries, canals, and other moving bodies of water 200 feet wide and greater, and lakes, reservoirs, ponds, and other permanent bodies of water 4.5 acres in area and greater.

Commercial forest land. (see: Timberland).

Commercial species. Tree species currently or potentially suitable for industrial wood products. Noncommercial species are excluded.

Cropland. Land under cultivation within the past 24 months, including orchards and land in soil-improving crops but excluding land cultivated in developing improved pasture. Also includes idle farmland.

D.b.h. Tree diameter in inches (outside bark) at breast height (4.5 feet above the ground).

Diameter class. A classification of trees based on tree d.b.h. Two-inch diameter classes are commonly used by Forest Inventory and Analysis, with the even inch as the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0-6.9 inches d.b.h.

Farm. Land on which agricultural operations are being conducted and sale of agricultural products totaled $1,000 or more during the year.

Farm operator. A person who operates a farm, either doing the work or directly supervising the work.

Farmer-owned land. (see: Other private land).

Forest industry land. Land owned by companies or individuals operating primary wood-using plants.

Forest industry-leased land. Land leased or under management contracts to forest industry from other owners for periods of one forest rotation or longer. Land under cutting contracts is not included.

Forest land. Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use.

Forest type. A classification of forest land based on the species forming a plurality of live-tree stocking.

White pine-hemlock. Forests in which eastern white pine, red pine, or jack pine, singly or in combination, constitute a plurality of the stocking. (Common associates include hemlock, birch, and maple.)

Spruce-fir. Forests in which spruce or true firs, singly or in combination, constitute a plurality of the stocking. (Common associates include maple, birch, and hemlock.)

Longleaf-slash pine. Forests in which longleaf or slash pine, singly or in combination, constitute a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Loblolly-shortleaf pine. Forests in which loblolly pine, shortleaf pine, or other southern yellow pines, except longleaf or slash pine, singly or in combination, constitute a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Oak-pine. Forests in which hardwoods (usually upland oaks) constitute a plurality of the stocking but in which pines account for 25 to 50 percent of the stocking. (Common associates include gum, hickory, and yellow-poplar.)

Oak-hickory. Forests in which upland oaks or hickory, singly or in combination, constitute a plurality of the stocking, except where pines account for 5 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include yellow-poplar, elm, maple, and black walnut.)

Oak-gum-cypress. Bottom-land forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, constitue a plurality of the stocking, except where pines account for 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include cottonwood, willow, ash, elm, hackberry, and maple.)

Elm-ash-cottonwood. Forests in which elm, ash, or cottonwood, singly or in combination, constitute a plurality of the stocking. (Common associates include willow, sycamore, beech, and maple.)

Maple-beech-birch. Forests in which maple, beech, or yellow birch, singly or in combination, constitute a plurality of the stocking. (Common associates include hemlock, elm, basswood, and white pine.)

Palm, other tropicals. Forests in which palms and other tropicals constitute a plurality of the stocking.

Gross growth. Annual increase in merchantable volume of trees in the absence of cutting and mortality. (Gross growth includes survivor growth, ingrowth, growth on ingrowth, growth on removals prior to removal, and growth on mortality prior to death.)

Growing-stock trees. Live sawtimber-size trees of commercial species containing at least a 12-foot log, or two noncontiguous saw logs each 8 feet or longer, meeting minimum grade requirements (hardwoods must qualify as a log grade of either 3 or 4; softwoods must qualify as a log grade 3) with at least one-third of the gross board-foot volume (International 1/4-inch rule) between a 1-foot stump and the minimum saw-log top being sound, or a live tree below sawtimber size that will prospectively qualify under the above standards.

Growing-stock volume. Volume (cubic feet) of solid wood in growing-stock trees 5.0 inches d.b.h. and larger, from a 1-foot stump to a minimum 4.0-inch top diameter, outside bark, on the central stem. Volume of solid wood in primary forks from the point of occurrence to a minimum 4.0-inch top diameter outside bark is included.

Hardwoods. Angiosperms; dicotyledonous trees (including all palm species which are monocotyledonous), usually broadleaf and deciduous.

Soft hardwoods. Soft-textured hardwoods such as boxelder, red and silver maples, hackberry, loblolly-bay, sweetgum, yellow-poplar, magnolia, sweetbay, water tupelo, blackgum, sycamore, cottonwood, black cherry, willow, basswood, and elm.

Hard hardwoods. Hard-textured hardwoods such as sugar maple, birch, hickory, dogwood, persimmon (forest grown), black locust, beech, ash, honey-locust, holly, black walnut, mulberry, and all commercial oaks.

Idle farmland. Cropland, orchard, improved pasture, and farm sites not tended within the past 2 years, and currently less than 16.7 percent stocked with live trees.

Improved pasture. Land currently improved for grazing by cultivation, seeding, irrigation, or clearing of trees or brush.

Industrial wood. All roundwood products except fuelwood.

Ingrowth. The number or net volume of trees that grow large enough during a specified year to qualify as saplings, poletimber, or sawtimber.

Land area. The area of dry land and land temporarily or partly covered by water such as marshes, swamps, and river floodplains (omitting tidal flats below mean high tide), streams, sloughs, estuaries, and canals less than 200 feet wide, and lakes, reservoirs, and ponds less than 4.5 acres in area.

Live trees. All trees 1.0 inch d.b.h. and larger which are not dead at the time of inventory.

Live-tree volume. Volume (cubic feet) of wood above the ground line in live trees 1.0 inch d.b.h. and larger. The volume in twigs and lateral limbs smaller than 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber- and sawtimber-size trees.

Log grade. A classification of logs based on external characteristics as indicators of quality or value.

Logging residues. The unused merchantable portion of growing-stock trees cut or destroyed during logging operations.

Manageable stand. Timberland at least 60 percent stocked with growing-stock trees that can be featured together under a management scheme.

Merchantable portion. That portion of live trees 5.0 inches d.b.h. and larger between a 1-foot stump and a minimum 4.0-inch top diameter outside bark on the central stem. That portion of primary forks from the point of occurrence to a minimum 4.0-inch top diameter outside bark is included.

Merchantable volume. Solid-wood volume in merchantable portion of live trees.

Miscellaneous Federal land. Federal land other than national forests, land administered by the Bureau of Land Management, and land administered by the Bureau of Indian Affairs.

Miscellaneous private land. (see: Other private land).

Mortality. The merchantable volume in trees that have died from natural causes during a specified period.

National forest land. Federal land that has been legally designated as national forests or purchase units, and other land under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III land.

Net annual growth. The net change in merchantable volume for a specific year in the absence of cutting (gross growth minus mortality for that specified year).

Net volume. Gross volume of wood less deductions for rot, sweep, or other defect affecting use for timber products.

Noncommercial species. Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Nonforest land. Land that has never supported forests and land formerly forested where timber production is precluded by development for other uses.

Nonindustrial private forest (NIPF) land. (see: Other private land).

Nonstocked forest land. Timberland less than 16.7 percent stocked with growing-stock trees.

Other private land. Privately owned land excluding forest industry land or forest industry-leased land. Also referred to as nonindustrial private forest (NIPF) land.

Farmer-owned land. Owned by farm operators, excluding incorporated farm ownerships.

Other individual land. Owned by individuals other than farm operators.

Other corporate land. Owned by corporations, including incorporated farm ownerships.

Other removals. The growing-stock volume of trees removed from the inventory by cultural operations such as timber stand improvement, land clearing, and other changes in land use that result in the removal of the trees from timberland.

Plant residues. Wood material generated in the production of timber products at primary manufacturing plants.

Coarse residues. Material, such as slabs, edgings, trim, veneer cores and ends, which is suitable for chipping.

Fine residues. Material, such as sawdust, shavings, and veneer chippings, which is not suitable for chipping.

Plant byproducts. Residues (coarse or fine) utilized in the further manufacture of industrial products or for consumer use, or utilized as fuel.

Unused plant residues. Residues (coarse or fine) that are not used for any product, including fuel.

Poletimber-size trees. Live trees at least 5.0 inches d.b.h. but smaller than sawtimber size.

Primary wood-using plants. Industries that receive roundwood or chips from roundwood for the manufacture of products such as veneer, pulp, and lumber.

Productive-reserved forest land. (see: Reserved timberland).

Rangeland. Land on which the natural vegetation is predominantly native grasses, grasslike plants, forbs, or shrubs valuable for forage, not qualifying as timberland and not developed for another land use. Rangeland includes natural grassland and savannah.

Reserved timberland. Forest land sufficiently productive to qualify as timberland, but withdrawn from timber utilization through statute or administrative designation.

Rotten trees. Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of rot or missing sections, and with less than one-third of the gross board-foot tree volume in sound material.

Rough trees. Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of roughness, poor form, splits, and cracks, and with less than one-third of the gross board-foot tree volume in sound material; and live trees of noncommercial species.

Roundwood (roundwood logs). Logs, bolts, or other round sections cut from trees for industrial or consumer uses.

Roundwood chipped. Any timber cut primarily for pulpwood, delivered to nonpulpmills, chipped, and then sold to pulpmills as residues, including chipped tops, jump sections, whole trees, and pulpwood sticks.

Roundwood products. Any primary product such as lumber, poles, pilings, pulp, or fuelwood which is produced from roundwood.

Salvable dead trees. Standing or down dead trees considered utilizable by Forest Inventory and Analysis standards.

Saplings. Live trees 1.0 to 5.0 inches d.b.h.

Saw log. A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark for softwoods of 6 inches (8 inches for hardwoods).

Saw-log portion. That part of the bole of sawtimber trees between a 1-foot stump and the saw-log top, including the portion of forks large enough to contain a saw log.

Saw-log top. The point on the bole of sawtimber trees above which a conventional saw log cannot be produced. The minimum saw-log top is 7.0 inches in diameter outside bark (d.o.b.) for softwoods and 9.0 inches d.o.b. for hardwoods.

Sawtimber-size trees. Softwoods 9.0 inches d.b.h. and larger and hardwoods 11.0 inches d.b.h. and larger.

Sawtimber volume. Growing-stock volume in the saw-log portion of sawtimber-size trees in board feet (International 1/4-inch rule).

Seedlings. Trees less than 1.0 inch in d.b.h. Only seedlings of a commercial species that are not overtopped and are more than 6 inches tall for softwoods and 1 foot tall for hardwoods are counted.

Site class. A classification of forest land in terms of inherent capacity to grow crops of industrial wood based on fully stocked natural stands, by annual production capacity.

Softwoods. Gymnosperms; in the order Coniferales, usually evergreen (includes the genus Taxodium which is deciduous), having needles or scalelike leaves.

Pines. Yellow pine species which include loblolly, longleaf, slash, pond, shortleaf, pitch, Virginia, sand, spruce, and Table Mountain pines.

Other softwoods. Cypress, eastern red cedar, white cedar, eastern white pine, eastern hemlock, spruce, and fir.

Stand-size class. A classification of forest land based on the diameter class distribution of live trees in the stand.

Sawtimber stands. Stands at least 16.7 percent stocked with live trees, with half or more of total stocking in sawtimber and poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands. Stands at least 16.7 percent stocked with live trees, of which half or more of total stocking is in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Sapling-seedling stands. Stands at least 16.7 percent stocked with live trees of which more than half of total stocking is saplings and seedlings.

State, county, and municipal land. Land owned by States, counties, and local public agencies or municipalities, or land leased to these governmental units for 50 years or more.

Stocking. The degree of occupancy of land by trees, measured by basal area or the number of trees in a stand and spacing in the stand, compared with a minimum standard, depending on tree size, required to fully utilize the growth potential of the land.

Fully stocked. 100 percent or more stocking.

Medium stocked. 60 to 99 percent stocking.

Poorly stocked. Less than 60 percent stocking.

Density of trees and basal area per acre required for full stocking

D.b.h. class	Trees per acre for full stocking	Basal area per acre
Seedlings	600	—
2	560	—
4	460	—
6	340	67
8	240	84
10	155	85
12	115	90
14	90	96
16	72	101
18	60	106
20	51	111

Survivor growth. The merchantable volume increment on trees 5.0 inches d.b.h. and larger in the inventory at the beginning of the year and surviving to its end.

Timberland. Forest land that is capable of producing 20 cubic feet of industrial wood per acre per year and not withdrawn from timber utilization.

Timber products. Roundwood products and byproducts.

Timber removals. The merchantable volume of trees removed from the inventory by harvesting, cultural operations such as stand improvement, land clearing, or changes in land use.

Top. The portion of the main stem and forks from a 4.0-inch diameter outside bark to the tips of the main stem and forks, plus all other limbs above the 4.0-inch top at least 0.5 inch in diameter at their point of occurrence.

Treatment opportunity. A classification of the management or treatment that would most improve for timber production the existing condition of the stand being sampled.

Tree. Woody plants having one erect perennial stem or trunk at least 3 inches d.b.h., a more or less definitely formed crown of foliage, and a height of at least 13 feet.

Tree grade. A classification of sawtimber trees based on the log grade of the butt log in the tree.

Unproductive forest land. (see: Woodland).

Upper-stem portion. That part of the main stem or fork of sawtimber trees above the saw-log top to minimum top diameter 4.0 inches outside bark or to the point where the main stem or fork breaks into limbs.

Urban and other areas. Areas developed for residential, industrial, or recreational purposes, school yards, cemeteries, roads, railroads, airports, beaches, powerlines and other rights-of-way, or other nonforest land not included in any other specified land use class.

Woodland. Forest land incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions.

CONVERSION FACTORS

Cubic feet of wood per average cord (excluding bark)

D.b.h. class	All species	Pine	Other softwood	Hardwood
6	61.4	61.0	68.2	60.0
8	69.3	68.1	76.0	68.4
10	74.5	73.1	81.4	73.4
12	77.9	76.7	85.2	76.4
14	80.3	79.4	88.2	78.4
16	81.9	81.6	90.4	79.8
18	83.0	83.3	92.3	80.8
20	83.8	84.8	93.8	81.5
22	84.4	86.0	95.1	82.1
24+	84.8	87.7	98.0	83.2
Average	74.5	72.0	82.5	74.5

Metric equivalents of units used in this report

1 acre = 4,046.86 square meters or 0.404686 hectare
1 cubic foot = 0.028317 cubic meter
1 inch = 2.54 centimeters or 0.0254 meter
Breast height (4.5 feet) = 1.4 meters above ground level
1 square foot = 929.03 square centimeters or 0.0929 square meter
1 square foot per acre basal area = 0.229568 square meter per hectare
1 pound = 0.454 kilogram
1 ton = 0.907 metric ton

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[a] Tables 1-12, 27, 29-33, 35-38, 41, 42, and 44 are common to all Forest Inventory and Analysis forest resource statistical reports of the Eastern United States.

Table 1—Area, by county and land class, Florida, 1995

County	All land[a]	Forest land				Nonforest land[b]
		Total	Timberland	Woodland	Reserved timberland	
	Acres					
Alachua	559,552	293,200	277,455	—	15,745	266,352
Baker	374,560	341,420	326,523	—	14,897	33,140
Bay	488,794	399,595	396,365	2,030	1,200	89,199
Bradford	187,616	135,197	135,197	—	—	52,419
Brevard	651,834	99,954	93,094	6,390	470	551,880
Broward	773,689	21,101	—	21,101	—	752,588
Calhoun	363,130	302,590	302,590	—	—	60,540
Charlotte	443,949	50,668	30,289	20,379	—	393,281
Citrus	373,504	194,786	185,932	5,146	3,708	178,718
Clay	384,730	289,846	288,246	—	1,600	94,884
Collier	1,296,288	602,655	190,458	263,870	148,327	693,633
Columbia	510,182	367,717	357,483	1,096	9,138	142,465
Dade	1,244,454	160,640	—	127,764	32,876	1,083,814
De Soto	407,891	47,759	47,759	—	—	360,132
Dixie	450,598	387,066	385,712	—	1,354	63,532
Duval	495,264	232,570	229,614	1,359	1,597	262,694
Escambia	424,730	257,018	250,789	4,357	1,872	167,712
Flagler	310,413	241,116	237,592	1,345	2,179	69,297
Franklin	341,747	302,064	301,493	300	271	39,683
Gadsden	330,342	253,880	253,400	—	480	76,462
Gilchrist	223,270	134,671	134,671	—	—	88,599
Glades	495,040	103,368	91,648	11,720	—	391,672
Gulf	361,638	312,153	310,232	1,145	776	49,485
Hamilton	329,523	242,409	240,094	—	2,315	87,114
Hardee	407,910	79,530	79,530	—	—	328,380
Hendry	737,728	71,626	62,831	8,795	—	666,102
Hernando	306,112	158,362	155,853	2,349	160	147,750
Highlands	658,227	85,563	78,759	2,835	3,969	572,664
Hillsborough	672,653	122,579	96,466	12,297	13,816	550,074
Holmes	308,832	211,102	210,742	—	360	97,730
Indian River	322,080	31,185	22,839	7,146	1,200	290,895
Jackson	586,099	327,146	325,426	—	1,720	258,953
Jefferson	382,586	286,499	284,399	—	2,100	96,087
Lafayette	347,411	297,321	297,321	—	—	50,090
Lake	609,990	269,412	248,490	5,698	15,224	340,578
Lee	514,304	118,714	60,872	57,842	—	395,590
Leon	426,752	306,075	305,389	—	686	120,677
Levy	715,802	476,562	462,794	895	12,873	239,240
Liberty	534,995	513,260	503,233	—	10,027	21,735
Madison	442,854	326,403	326,368	—	35	116,451
Manatee	474,368	52,479	40,003	5,666	6,810	421,889
Marion	1,010,554	588,149	568,275	302	19,572	422,405
Martin	355,629	51,434	40,647	7,407	3,380	304,195
Monroe	638,253	364,908	—	275,857	89,051	273,345
Nassau	417,037	324,825	323,374	512	939	92,212
Okaloosa	598,906	449,230	448,276	597	357	149,676
Okeechobee	495,571	45,417	43,331	1,586	500	450,154
Orange	580,883	172,819	149,304	2,556	20,959	408,064
Osceola	846,093	184,464	181,508	2,556	400	661,629
Palm Beach	1,301,971	122,420	—	122,420	—	1,179,551
Pasco	476,794	159,460	159,125	157	178	317,334
Pinellas	179,302	18,128	6,460	7,677	3,991	161,174
Polk	1,199,955	283,287	243,155	27,013	13,119	916,668
Putnam	462,189	350,717	347,781	—	2,936	111,472
Santa Rosa	650,125	479,823	478,054	—	1,769	170,302
Sarasota	365,920	59,591	48,801	1,132	9,658	306,329
Seminole	197,261	74,473	72,545	—	1,928	122,788
St. Johns	389,786	250,842	245,326	2,672	2,844	138,944
St. Lucie	366,394	24,524	20,589	3,935	—	341,870
Sumter	349,235	155,538	149,891	5,567	80	193,697
Suwannee	440,115	233,667	231,514	—	2,153	206,448
Taylor	666,848	582,767	579,435	3,332	—	84,081
Union	153,792	121,390	121,390	—	—	32,402
Volusia	707,763	461,469	440,936	8,425	12,108	246,294
Wakulla	388,282	340,258	314,267	—	25,991	48,024
Walton	676,909	522,237	516,781	2,633	2,823	154,672
Washington	371,123	292,099	291,944	—	155	79,024
Total	34,558,131	16,221,197	14,650,660	1,047,861	522,676	18,336,934

[a] From the U.S. Bureau of the Census, 1990.

[b] Includes 153,129 acres of water according to Forest Inventory and Analysis standards of area classification, but defined by the Bureau of Census as land.

Table 2—Area of timberland, by county and ownership class, Florida, 1995

County	All ownerships	Ownership class							
		National forest	Miscellaneous Federal	State	County and municipal	Forest industry[a]	Other private		
							Farmer	Corporate	Individual
	Acres								
Alachua	277,455	—	17	4,302	668	112,646	33,511	20,622	105,689
Baker	326,523	86,832	3,678	186	40	194,779	5,468	10,935	24,605
Bay	396,365	—	21,465	6,354	920	209,895	—	106,016	51,715
Bradford	135,197	—	—	15,475	950	79,841	7,300	2,433	29,198
Brevard	93,094	—	12,462	5,105	490	—	4,841	43,570	26,626
Broward	—	—	—	—	—	—	—	—	—
Calhoun	302,590	—	12	37	85	138,762	22,578	76,202	64,914
Charlotte	30,289	—	—	7,114	200	—	1,532	16,848	4,595
Citrus	185,932	—	—	48,530	706	—	—	49,211	87,485
Clay	288,246	—	640	69,944	894	69,306	4,915	86,020	56,527
Collier	190,458	—	—	8,851	200	—	22,327	19,536	139,544
Columbia	357,483	80,091	—	5,093	412	142,382	34,689	34,689	60,127
Dade	—	—	—	—	—	—	—	—	—
De Soto	47,759	—	—	3,066	64	—	17,356	12,397	14,876
Dixie	385,712	—	17,130	4,820	210	280,636	3,769	22,613	56,534
Duval	229,614	—	16,774	4,345	7,730	41,420	—	86,424	72,921
Escambia	250,789	—	2,950	5,314	90	102,287	11,212	61,665	67,271
Flagler	237,592	—	—	1,000	650	163,806	22,387	29,849	19,900
Franklin	301,493	19,678	7,319	45,421	646	104,859	—	107,094	16,476
Gadsden	253,400	—	1	10,248	80	104,236	24,990	36,097	77,748
Gilchrist	134,671	—	—	—	280	26,395	25,825	35,216	46,955
Glades	91,648	—	—	—	60	—	2,862	88,726	—
Gulf	310,232	—	755	35,123	55	252,459	1,680	6,720	13,440
Hamilton	240,094	—	—	12,971	121	111,263	21,258	33,068	61,413
Hardee	79,530	—	—	727	80	—	25,048	28,627	25,048
Hendry	62,831	—	—	459	—	—	—	41,581	20,791
Hernando	155,853	—	707	55,344	1,630	—	—	34,493	63,679
Highlands	78,759	—	22,500	460	90	—	14,660	32,253	8,796
Hillsborough	96,466	—	—	14,369	3,480	—	5,241	44,550	28,826
Holmes	210,742	—	460	3,482	355	32,446	82,984	34,800	56,215
Indian River	22,839	—	—	691	155	—	—	17,106	4,887
Jackson	325,426	—	5,436	9,217	165	25,100	92,285	66,330	126,893
Jefferson	284,399	—	—	14,031	30	163,420	25,157	25,157	56,604
Lafayette	297,321	—	—	2,431	336	206,637	9,095	12,126	66,696
Lake	248,490	69,407	280	20,081	750	—	14,582	48,607	94,783
Lee	60,872	—	—	4,800	4,100	—	—	10,941	41,031
Leon	305,389	103,735	20	8,126	1,928	54,450	11,428	62,851	62,851
Levy	462,794	—	15,944	46,710	572	171,568	24,141	107,294	96,565
Liberty	503,233	258,174	—	22,230	40	153,623	11,528	17,292	40,346
Madison	326,368	—	728	6,867	10	121,465	53,809	10,249	133,240
Manatee	40,003	—	—	2,870	6,321	—	—	18,487	12,325
Marion	568,275	245,609	—	35,087	2,230	68,096	15,246	49,549	152,458
Martin	40,647	—	—	11,854	300	—	—	14,247	14,246
Monroe	—	—	—	—	—	—	—	—	—
Nassau	323,374	—	5	5,840	599	209,466	15,352	17,911	74,201
Okaloosa	448,276	—	211,310	59,766	748	55,134	22,747	15,165	83,406
Okeechobee	43,331	—	—	692	100	—	—	28,359	14,180
Orange	149,304	—	268	22,422	7,870	—	5,937	65,309	47,498
Osceola	181,508	—	380	31,458	830	—	18,943	67,655	62,242
Palm Beach	—	—	—	—	—	—	—	—	—
Pasco	159,125	—	20	59,319	5,885	—	7,413	32,124	54,364
Pinellas	6,460	—	—	1,350	1,231	—	—	2,586	1,293
Polk	243,155	—	15,198	17,832	1,968	—	39,381	84,388	84,388
Putnam	347,781	19,914	5,100	23,533	317	101,440	7,694	64,116	125,667
Santa Rosa	478,054	—	56,300	130,375	809	165,986	21,156	11,753	91,675
Sarasota	48,801	—	—	55	2,971	—	2,861	34,331	8,583
Seminole	72,545	—	150	6,185	587	—	7,720	30,881	27,022
St. Johns	245,326	—	—	4,616	138	136,287	6,801	38,540	58,944
St. Lucie	20,589	—	—	225	200	—	2,521	10,082	7,561
Sumter	149,891	—	—	78,216	10	—	8,431	16,862	46,372
Suwannee	231,514	—	—	4,980	691	12,697	28,946	28,946	155,254
Taylor	579,435	—	—	54,618	180	487,368	2,130	3,194	31,945
Union	121,390	—	—	3,810	126	75,540	9,314	6,986	25,614
Volusia	440,936	—	2,844	26,326	12,262	41,798	23,265	215,205	119,236
Wakulla	314,267	146,082	28,385	147	1,213	54,094	5,817	11,634	66,895
Walton	516,781	—	137,233	36,102	209	103,406	57,559	62,356	119,916
Washington	291,944	—	—	17,269	441	26,490	47,071	118,917	81,756
Total	14,650,660	1,029,522	586,471	1,138,271	77,508	4,601,483	994,763	2,629,791	3,592,851

[a] Includes 585,977 acres of other private land under long-term lease.

Table 3—Area of timberland, by county and forest-type group, Florida, 1995

County	All type groups	Forest-type group					
		Longleaf–slash	Loblolly–shortleaf	Oak–pine	Oak–hickory	Oak–gum–cypress	Elm–ash–cottonwood
				Acres			
Alachua	277,455	131,836	16,709	18,904	72,826	37,180	—
Baker	326,523	219,110	6,411	12,321	2,734	85,947	—
Bay	396,365	283,516	40,263	19,583	17,634	35,369	—
Bradford	135,197	85,742	7,909	9,422	9,712	22,412	—
Brevard	93,094	29,435	7,263	2,421	21,999	31,976	—
Broward	—	—	—	—	—	—	—
Calhoun	302,590	137,989	45,729	31,717	27,791	56,971	2,393
Charlotte	30,289	13,985	—	—	—	16,304	—
Citrus	185,932	34,005	8,202	42,936	62,050	38,739	—
Clay	288,246	149,549	17,022	21,102	49,370	51,203	—
Collier	190,458	28,107	—	8,372	10,008	143,971	—
Columbia	357,483	174,896	20,950	19,274	54,198	88,165	—
Dade	—	—	—	—	—	—	—
De Soto	47,759	9,916	—	—	23,913	13,930	—
Dixie	385,712	158,165	9,846	13,617	41,546	162,538	—
Duval	229,614	99,356	26,239	34,002	31,643	38,374	—
Escambia	250,789	117,544	42,239	33,090	19,511	38,405	—
Flagler	237,592	138,542	9,254	19,150	16,122	54,524	—
Franklin	301,493	188,745	22,356	24,330	5,492	60,570	—
Gadsden	253,400	39,471	77,263	34,793	49,549	52,324	—
Gilchrist	134,671	73,021	—	16,434	31,477	13,739	—
Glades	91,648	45,853	—	2,862	5,726	37,207	—
Gulf	310,232	177,937	4,836	15,983	6,515	103,281	1,680
Hamilton	240,094	106,258	11,768	31,467	31,708	58,893	—
Hardee	79,530	17,892	—	3,579	28,704	29,355	—
Hendry	62,831	12,934	—	4,158	4,158	41,581	—
Hernando	155,853	31,013	17,550	20,540	65,646	21,104	—
Highlands	78,759	18,796	—	14,228	16,818	28,917	—
Hillsborough	96,466	18,344	—	10,483	11,876	55,763	—
Holmes	210,742	53,418	47,258	31,648	32,582	45,836	—
Indian River	22,839	12,218	—	2,444	2,444	5,733	—
Jackson	325,426	64,093	75,033	29,981	77,864	75,571	2,884
Jefferson	284,399	78,921	54,871	22,668	33,146	94,793	—
Lafayette	297,321	141,709	9,266	34,462	32,562	79,322	—
Lake	248,490	58,663	40,558	27,088	32,187	89,994	—
Lee	60,872	29,755	—	5,470	2,736	22,911	—
Leon	305,389	93,532	64,562	56,860	48,206	42,229	—
Levy	462,794	152,206	60,441	41,250	88,709	117,421	2,767
Liberty	503,233	243,614	52,869	21,559	13,682	163,226	8,283
Madison	326,368	112,023	34,158	20,776	59,357	97,492	2,562
Manatee	40,003	13,299	2,054	2,054	10,270	12,326	—
Marion	568,275	95,461	200,928	76,925	134,427	60,534	—
Martin	40,647	26,400	2,850	2,850	2,849	5,698	—
Monroe	—	—	—	—	—	—	—
Nassau	323,374	152,879	22,252	30,289	29,937	88,017	—
Okaloosa	448,276	183,061	55,055	94,648	62,165	53,347	—
Okeechobee	43,331	11,344	—	2,836	—	29,151	—
Orange	149,304	26,241	20,780	11,874	17,810	72,599	—
Osceola	181,508	27,932	2,706	18,024	19,772	113,074	—
Palm Beach	—	—	—	—	—	—	—
Pasco	159,125	37,850	2,471	16,129	39,019	63,656	—
Pinellas	6,460	—	1,293	1,293	—	3,874	—
Polk	243,155	62,681	5,361	18,777	54,494	101,842	—
Putnam	347,781	157,789	42,705	37,044	57,379	49,677	3,187
Santa Rosa	478,054	202,709	38,453	105,475	47,797	83,620	—
Sarasota	48,801	23,737	—	424	9,007	15,633	—
Seminole	72,545	11,731	—	15,441	11,580	33,793	—
St. Johns	245,326	120,436	17,057	32,576	6,801	68,456	—
St. Lucie	20,589	12,603	200	2,520	—	5,266	—
Sumter	149,891	43,938	12,656	8,126	41,545	39,410	4,216
Suwannee	231,514	113,556	10,527	17,871	71,099	18,461	—
Taylor	579,435	318,311	30,784	23,997	37,995	159,673	8,675
Union	121,390	84,214	4,657	4,902	2,328	25,289	—
Volusia	440,936	182,312	23,264	66,625	34,150	131,676	2,909
Wakulla	314,267	154,668	36,681	35,303	38,915	48,700	—
Walton	516,781	172,472	127,556	57,290	79,863	79,600	—
Washington	291,944	53,611	75,329	36,713	61,940	61,884	2,467
Total	14,650,660	5,871,344	1,566,444	1,478,980	2,013,343	3,678,526	42,023

Table 4—Area of timberland, by county and stand-size class, Florida, 1995

County	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
		Acres			
Alachua	277,455	88,921	89,716	93,582	5,236
Baker	326,523	79,872	104,739	123,394	18,518
Bay	396,365	34,808	103,896	238,079	19,582
Bradford	135,197	29,112	52,190	51,462	2,433
Brevard	93,094	46,308	27,349	14,595	4,842
Broward	—	—	—	—	—
Calhoun	302,590	78,508	73,433	142,182	8,467
Charlotte	30,289	13,786	10,377	1,532	4,594
Citrus	185,932	54,877	48,672	82,383	—
Clay	288,246	86,425	101,929	97,434	2,458
Collier	190,458	85,361	63,235	27,907	13,955
Columbia	357,483	94,055	125,078	135,903	2,447
Dade	—	—	—	—	—
De Soto	47,759	31,287	4,077	4,958	7,437
Dixie	385,712	138,595	156,640	78,929	11,548
Duval	229,614	88,688	64,762	71,530	4,634
Escambia	250,789	104,111	64,227	82,451	—
Flagler	237,592	83,417	78,057	70,600	5,518
Franklin	301,493	57,775	116,503	106,306	20,909
Gadsden	253,400	60,372	88,434	104,594	—
Gilchrist	134,671	24,000	58,494	52,177	—
Glades	91,648	34,347	17,232	20,034	20,035
Gulf	310,232	82,721	69,836	145,053	12,622
Hamilton	240,094	36,158	103,239	95,488	5,209
Hardee	79,530	53,675	17,891	7,964	—
Hendry	62,831	33,264	17,092	8,317	4,158
Hernando	155,853	68,452	45,909	38,839	2,653
Highlands	78,759	33,024	7,932	26,507	11,296
Hillsborough	96,466	69,318	18,591	5,936	2,621
Holmes	210,742	48,393	39,702	122,647	—
Indian River	22,839	15,354	5,042	—	2,443
Jackson	325,426	80,260	58,657	186,509	—
Jefferson	284,399	120,534	55,095	104,969	3,801
Lafayette	297,321	64,566	57,558	155,893	19,304
Lake	248,490	92,871	50,425	98,507	6,687
Lee	60,872	9,570	29,419	19,148	2,735
Leon	305,389	122,740	59,500	117,699	5,450
Levy	462,794	170,964	150,727	130,430	10,673
Liberty	503,233	220,330	99,930	169,468	13,505
Madison	326,368	69,881	106,069	128,488	21,930
Manatee	40,003	18,488	4,108	13,299	4,108
Marion	568,275	192,209	136,052	225,124	14,890
Martin	40,647	20,172	17,625	2,850	—
Monroe	—	—	—	—	—
Nassau	323,374	89,372	106,526	113,251	14,225
Okaloosa	448,276	149,682	128,383	167,467	2,744
Okeechobee	43,331	28,359	11,444	3,528	—
Orange	149,304	83,495	22,315	40,525	2,969
Osceola	181,508	91,470	34,265	53,067	2,706
Palm Beach	—	—	—	—	—
Pasco	159,125	82,256	33,426	37,199	6,244
Pinellas	6,460	6,460	—	—	—
Polk	243,155	97,467	55,804	84,524	5,360
Putnam	347,781	90,291	103,981	140,063	13,446
Santa Rosa	478,054	170,947	113,472	193,635	—
Sarasota	48,801	29,513	10,280	425	8,583
Seminole	72,545	53,245	7,720	11,580	—
St. Johns	245,326	67,770	84,641	90,259	2,656
St. Lucie	20,589	15,348	—	5,241	—
Sumter	149,891	80,959	34,168	32,808	1,956
Suwannee	231,514	62,604	89,370	79,540	—
Taylor	579,435	109,636	163,690	284,482	21,627
Union	121,390	29,910	42,946	44,724	3,810
Volusia	440,936	162,760	122,963	125,974	29,239
Wakulla	314,267	124,927	62,071	117,135	10,134
Walton	516,781	149,269	113,492	251,243	2,777
Washington	291,944	73,371	83,650	132,445	2,478
Total	14,650,660	4,786,680	4,024,046	5,412,282	427,652

Table 5—Area of timberland, by county and site class, Florida, 1995

County	All classes	Site class (cubic feet per acre per year)				
		> 164	120-164	85-119	50-84	20-49
			Acres			
Alachua	277,455	—	10,439	101,707	144,968	20,341
Baker	326,523	—	10,452	60,381	227,800	27,890
Bay	396,365	—	—	2,956	255,197	138,212
Bradford	135,197	—	901	19,427	102,189	12,680
Brevard	93,094	—	—	7,261	46,132	39,701
Broward	—	—	—	—	—	—
Calhoun	302,590	—	7,178	43,682	204,357	47,373
Charlotte	30,289	—	—	1,532	13,784	14,973
Citrus	185,932	—	—	9,936	63,540	112,456
Clay	288,246	—	4,870	44,920	178,306	60,150
Collier	190,458	—	—	2,791	69,769	117,898
Columbia	357,483	—	7,432	92,062	225,690	32,299
Dade	—	—	—	—	—	—
De Soto	47,759	—	—	—	23,847	23,912
Dixie	385,712	—	4,923	53,610	264,599	62,580
Duval	229,614	1,932	6,056	36,764	130,758	54,104
Escambia	250,789	2,803	—	27,484	199,316	21,186
Flagler	237,592	—	—	29,398	170,733	37,461
Franklin	301,493	—	—	8,876	108,965	183,652
Gadsden	253,400	—	2,049	63,000	161,015	27,336
Gilchrist	134,671	—	3,306	16,148	82,350	32,867
Glades	91,648	—	—	—	54,379	37,269
Gulf	310,232	—	—	9,672	153,483	147,077
Hamilton	240,094	—	—	36,553	186,587	16,954
Hardee	79,530	—	—	10,735	36,511	32,284
Hendry	62,831	—	—	—	33,265	29,566
Hernando	155,853	—	5,169	13,266	100,685	36,733
Highlands	78,759	—	—	—	45,212	33,547
Hillsborough	96,466	—	—	8,557	73,414	14,495
Holmes	210,742	—	5,354	63,294	115,461	26,633
Indian River	22,839	—	—	—	8,023	14,816
Jackson	325,426	—	10,583	57,679	224,674	32,490
Jefferson	284,399	—	8,385	60,465	187,449	28,100
Lafayette	297,321	—	3,032	24,744	224,384	45,161
Lake	248,490	2,431	9,357	35,964	136,825	63,913
Lee	60,872	—	—	—	10,942	49,930
Leon	305,389	—	2,857	56,959	162,364	83,209
Levy	462,794	—	10,727	86,037	256,068	109,962
Liberty	503,233	—	—	43,845	277,282	182,106
Madison	326,368	—	—	68,026	225,437	32,905
Manatee	40,003	—	—	—	23,570	16,433
Marion	568,275	2,064	17,509	112,920	286,686	149,096
Martin	40,647	—	—	—	14,475	26,172
Monroe	—	—	—	—	—	—
Nassau	323,374	—	8,389	52,012	198,769	64,204
Okaloosa	448,276	—	5,488	34,641	196,267	211,880
Okeechobee	43,331	—	—	2,836	34,723	5,772
Orange	149,304	—	—	2,969	94,144	52,191
Osceola	181,508	—	—	8,118	120,275	53,115
Palm Beach	—	—	—	—	—	—
Pasco	159,125	—	—	9,366	103,327	46,432
Pinellas	6,460	—	—	—	5,167	1,293
Polk	243,155	—	—	656	168,251	74,248
Putnam	347,781	—	—	78,797	186,809	82,175
Santa Rosa	478,054	—	22,935	98,462	246,191	110,466
Sarasota	48,801	—	—	—	28,350	20,451
Seminole	72,545	—	—	19,301	45,524	7,720
St. Johns	245,326	2,267	—	30,695	186,976	25,388
St. Lucie	20,589	—	—	—	5,265	15,324
Sumter	149,891	4,216	1,955	12,039	105,043	26,638
Suwannee	231,514	—	2,631	50,044	144,910	33,929
Taylor	579,435	—	2,971	63,016	368,137	145,311
Union	121,390	—	—	24,889	84,366	12,135
Volusia	440,936	2,908	5,816	45,708	298,374	88,130
Wakulla	314,267	—	—	36,347	169,607	108,313
Walton	516,781	—	—	28,335	291,469	196,977
Washington	291,944	—	6,542	35,385	109,701	140,316
Total	14,650,660	18,621	187,306	1,944,267	8,702,136	3,798,330

Table 6—Area of timberland, by county and stocking class of growing-stock trees, Florida, 1995

County	All classes	Stocking class (percent)[a] > 130	100-130	60-99	16.7-59	< 16.7
			Acres			
Alachua	277,455	23,457	81,757	94,588	59,527	18,126
Baker	326,523	31,270	127,893	108,801	33,687	24,872
Bay	396,365	5,913	123,420	160,826	75,911	30,295
Bradford	135,197	19,088	41,339	42,646	27,889	4,235
Brevard	93,094	7,260	7,261	26,627	22,175	29,771
Broward	—	—	—	—	—	—
Calhoun	302,590	5,215	62,611	150,386	54,623	29,755
Charlotte	30,289	3,063	4,596	8,646	3,264	10,720
Citrus	185,932	4,468	9,935	50,406	91,317	29,806
Clay	288,246	8,952	55,582	128,547	60,987	34,178
Collier	190,458	16,745	25,118	33,490	68,818	46,287
Columbia	357,483	19,845	122,011	144,088	64,110	7,429
Dade	—	—	—	—	—	—
De Soto	47,759	—	6,491	4,959	16,473	19,836
Dixie	385,712	4,924	90,265	155,651	104,786	30,086
Duval	229,614	10,928	83,663	87,741	31,844	15,438
Escambia	250,789	11,103	103,848	91,645	41,390	2,803
Flagler	237,592	14,579	68,460	98,839	45,166	10,548
Franklin	301,493	3,659	82,369	135,181	49,457	30,827
Gadsden	253,400	9,501	76,457	127,459	39,983	—
Gilchrist	134,671	2,348	38,803	43,260	43,216	7,044
Glades	91,648	2,862	14,310	17,172	20,094	37,210
Gulf	310,232	21,175	41,027	130,826	88,056	29,148
Hamilton	240,094	20,244	80,901	92,307	33,861	12,781
Hardee	79,530	—	15,041	21,471	28,626	14,392
Hendry	62,831	12,474	12,475	8,317	17,091	12,474
Hernando	155,853	2,515	23,149	52,240	67,611	10,338
Highlands	78,759	2,500	11,756	19,660	22,161	22,682
Hillsborough	96,466	20,511	10,482	27,842	29,769	7,862
Holmes	210,742	12,908	55,305	94,360	45,032	3,137
Indian River	22,839	691	2,444	2,444	9,775	7,485
Jackson	325,426	8,652	105,802	145,986	47,684	17,302
Jefferson	284,399	18,008	63,890	141,735	52,771	7,995
Lafayette	297,321	5,424	72,142	104,235	74,520	41,000
Lake	248,490	8,512	49,715	78,618	86,485	25,160
Lee	60,872	—	10,941	10,608	33,853	5,470
Leon	305,389	2,857	82,721	164,355	50,006	5,450
Levy	462,794	34,941	90,531	172,671	110,893	53,758
Liberty	503,233	26,367	78,138	222,629	154,218	21,881
Madison	326,368	21,056	49,671	121,154	94,201	40,286
Manatee	40,003	—	—	11,088	18,645	10,270
Marion	568,275	8,317	108,248	196,976	174,445	80,289
Martin	40,647	—	2,850	11,625	20,473	5,699
Monroe	—	—	—	—	—	—
Nassau	323,374	29,156	102,899	130,378	40,886	20,055
Okaloosa	448,276	17,911	43,315	177,709	182,470	26,871
Okeechobee	43,331	2,836	14,871	11,344	8,508	5,772
Orange	149,304	17,337	22,793	37,638	45,774	25,762
Osceola	181,508	24,354	44,548	48,665	49,581	14,360
Palm Beach	—	—	—	—	—	—
Pasco	159,125	15,477	21,742	51,800	43,443	26,663
Pinellas	6,460	—	1,293	3,874	1,293	—
Polk	243,155	22,237	40,102	59,935	82,031	38,850
Putnam	347,781	14,967	63,915	109,692	100,517	58,690
Santa Rosa	478,054	39,636	80,188	199,269	153,599	5,362
Sarasota	48,801	—	2,916	8,582	16,427	20,876
Seminole	72,545	6,185	4,010	19,300	30,882	12,168
St. Johns	245,326	17,093	69,945	113,386	37,712	7,190
St. Lucie	20,589	225	—	5,041	12,803	2,520
Sumter	149,891	13,992	23,474	54,625	47,719	10,081
Suwannee	231,514	2,631	73,132	100,489	42,103	13,159
Taylor	579,435	9,738	142,765	220,784	144,839	61,309
Union	121,390	10,297	42,421	50,398	14,464	3,810
Volusia	440,936	24,551	103,914	141,384	110,576	60,511
Wakulla	314,267	7,581	66,957	135,160	89,517	15,052
Walton	516,781	35,821	95,934	213,027	131,577	40,422
Washington	291,944	4,954	76,218	112,584	68,456	29,732
Total	14,650,660	749,311	3,330,770	5,547,169	3,670,070	1,353,340

[a] See stocking standards under "stocking" in definitions.

Table 7—Volume of growing stock and sawtimber on timberland, by county and species group, Florida, 1995

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					*Thousand board feet*				
Alachua	308,656	149,938	40,370	46,796	71,552	817,086	267,018	155,342	121,203	273,523
Baker	381,312	236,892	62,373	78,086	3,961	1,051,663	681,372	189,709	171,136	9,446
Bay	174,121	133,129	7,387	22,197	11,408	234,051	136,554	16,121	63,793	17,583
Bradford	126,652	84,016	7,979	20,201	14,456	265,107	164,248	17,720	24,474	58,665
Brevard	85,753	47,428	5,138	14,832	18,355	252,920	108,130	15,037	57,312	72,441
Broward	—	—	—	—	—	—	—	—	—	—
Calhoun	256,289	149,242	16,966	58,035	32,046	739,235	384,875	65,092	168,247	121,021
Charlotte	31,223	13,864	16,626	—	733	74,487	37,823	33,736	—	2,928
Citrus	140,779	46,365	33,193	27,683	33,538	474,604	157,317	137,452	79,542	100,293
Clay	293,876	173,164	12,653	57,541	50,518	789,405	464,342	46,266	120,606	158,191
Collier	191,337	36,363	138,516	11,367	5,091	587,383	121,926	426,028	23,130	16,299
Columbia	393,030	206,880	50,195	94,692	41,263	1,069,516	643,743	163,235	147,093	115,445
Dade	—	—	—	—	—	—	—	—	—	—
De Soto	38,975	3,559	5,964	19,609	9,843	142,442	18,593	23,561	65,308	34,980
Dixie	434,851	173,362	79,456	88,372	93,661	1,040,543	348,482	223,128	193,695	275,238
Duval	323,561	175,058	14,873	84,688	48,942	1,009,843	556,677	50,288	220,930	181,948
Escambia	330,664	212,751	5,358	83,585	28,970	1,087,781	698,577	16,118	277,315	95,771
Flagler	307,061	154,067	77,335	51,680	23,979	906,656	430,800	227,515	141,760	106,581
Franklin	274,987	166,088	44,700	54,530	9,669	667,220	340,083	133,051	168,420	25,666
Gadsden	284,622	120,369	—	89,787	74,466	867,984	363,777	—	250,297	253,910
Gilchrist	116,283	74,812	17,628	5,159	18,684	224,520	107,459	49,730	4,697	62,634
Glades	52,991	13,911	32,621	4,658	1,801	191,785	46,219	126,549	10,051	8,966
Gulf	246,731	73,493	57,821	97,372	18,045	700,273	173,614	176,370	288,927	61,362
Hamilton	251,721	114,103	24,201	57,233	56,184	561,533	207,276	50,824	97,697	205,736
Hardee	99,145	30,763	25,158	15,159	28,065	365,314	152,606	82,131	27,824	102,753
Hendry	102,080	4,742	89,060	2,624	5,654	365,354	19,748	309,863	11,962	23,781
Hernando	191,244	68,293	6,924	52,465	63,562	611,191	225,121	31,261	150,450	204,359
Highlands	71,945	16,288	31,278	15,824	8,555	263,045	64,994	129,131	34,385	34,535
Hillsborough	196,645	25,407	96,564	32,771	41,903	594,463	113,266	249,075	94,904	137,218
Holmes	177,667	71,737	8,661	70,625	26,644	462,143	221,501	32,421	128,889	79,332
Indian River	21,046	12,804	6,527	236	1,479	85,983	61,010	18,820	—	6,153
Jackson	282,002	82,827	22,676	107,695	68,804	767,468	248,974	73,667	224,233	220,594
Jefferson	386,552	79,107	41,315	157,951	108,179	1,294,155	301,192	168,960	438,190	385,813
Lafayette	206,356	75,648	37,394	44,067	49,247	535,347	195,078	100,784	65,639	173,846
Lake	273,910	107,342	55,506	77,099	33,963	846,915	381,468	137,511	200,017	127,919
Lee	47,715	17,724	29,262	—	729	67,357	26,010	41,347	—	—
Leon	348,281	188,447	7,363	82,045	70,426	1,238,548	725,702	16,337	253,651	242,858
Levy	575,560	276,856	93,656	100,797	104,251	1,630,876	746,028	271,726	251,223	361,899
Liberty	570,902	260,589	93,194	161,665	55,454	1,905,941	858,642	348,730	462,753	235,816
Madison	268,875	75,245	49,479	101,565	42,586	731,843	192,993	160,342	236,254	142,254
Manatee	30,081	3,166	—	14,058	12,857	117,819	14,417	—	57,011	46,391
Marion	554,956	336,764	21,978	79,971	116,243	1,692,959	983,457	68,459	224,740	416,303
Martin	31,501	28,276	2,347	—	878	107,767	104,390	—	—	3,377
Monroe	—	—	—	—	—	—	—	—	—	—
Nassau	396,025	187,438	38,005	123,437	47,145	1,017,394	519,602	119,519	235,045	143,228
Okaloosa	461,460	333,168	19,225	73,391	35,676	1,627,650	1,281,224	89,642	134,888	121,896
Okeechobee	76,118	16,388	19,730	32,346	7,654	271,537	59,567	76,540	108,110	27,320
Orange	201,530	53,081	79,265	55,812	13,372	647,545	221,014	221,056	155,403	50,072
Osceola	305,989	50,490	161,140	63,094	31,265	975,157	246,341	486,602	168,344	73,870
Palm Beach	—	—	—	—	—	—	—	—	—	—
Pasco	193,575	12,646	81,115	45,348	54,466	599,559	39,216	222,145	140,632	197,566
Pinellas	10,224	4,072	3,802	1,534	816	40,904	21,325	12,605	5,501	1,473
Polk	317,686	80,258	110,413	91,670	35,345	994,378	304,280	313,382	242,402	134,314
Putnam	304,588	172,368	11,535	76,682	44,003	811,329	421,372	40,763	219,233	129,961
Santa Rosa	601,331	349,239	64,424	135,954	51,714	2,034,492	1,301,478	255,483	328,070	149,461
Sarasota	25,588	16,884	—	3,765	4,939	89,649	55,087	—	11,750	22,812
Seminole	77,271	30,927	1,238	12,236	32,870	316,940	132,458	5,627	46,711	132,144
St. Johns	279,320	142,177	23,541	76,488	37,114	676,832	337,101	82,631	141,098	116,002
St. Lucie	11,397	8,363	2,130	337	567	53,933	43,441	8,950	1,542	—
Sumter	266,020	54,782	85,970	50,234	75,034	769,191	159,947	258,269	119,142	231,833
Suwannee	220,560	101,993	—	28,712	89,855	705,620	263,984	—	102,934	338,702
Taylor	399,108	150,826	75,298	98,472	74,512	1,017,314	298,284	223,809	242,314	252,907
Union	138,009	68,430	19,210	43,527	6,842	325,512	143,339	59,390	102,826	19,957
Volusia	508,808	210,603	127,646	116,112	54,447	1,461,960	702,904	286,510	276,964	195,582
Wakulla	335,315	198,949	9,643	72,196	54,527	1,145,598	733,811	36,271	195,435	180,081
Walton	494,654	323,226	13,265	117,458	40,705	1,635,546	1,127,003	56,416	345,964	106,163
Washington	259,917	87,908	33,049	87,136	51,824	628,665	222,867	141,345	121,768	142,685
Total	15,366,431	6,975,095	2,449,339	3,590,661	2,351,336	45,287,230	20,731,147	7,580,392	9,003,834	7,971,857

Table 8—Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Florida, 1987-1994

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					*Thousand board feet*				
Alachua	23,261	17,827	537	1,334	3,563	67,261	44,340	2,954	5,257	14,710
Baker	19,397	17,076	642	1,350	329	43,580	38,548	2,843	1,783	406
Bay	18,094	16,843	65	491	695	17,533	14,304	328	1,333	1,568
Bradford	7,596	6,298	240	524	534	16,046	11,978	915	1,194	1,959
Brevard	2,986	2,027	163	210	586	12,953	8,755	657	1,226	2,315
Broward	—	—	—	—	—	—	—	—	—	—
Calhoun	17,332	15,018	240	1,475	599	37,386	25,877	1,713	6,248	3,548
Charlotte	600	202	346	6	46	3,115	2,258	643	—	214
Citrus	4,932	2,894	483	687	868	16,312	8,607	2,799	2,093	2,813
Clay	16,286	12,456	168	2,087	1,575	48,000	36,808	842	4,342	6,008
Collier	3,122	1,511	2,407	-579	-217	14,594	6,641	12,646	-2,692	-2,001
Columbia	18,368	13,008	524	3,568	1,268	46,188	35,669	2,257	4,523	3,739
Dade	—	—	—	—	—	—	—	—	—	—
De Soto	1,185	27	104	696	358	5,476	563	593	3,524	796
Dixie	26,298	16,970	2,362	3,274	3,692	75,600	42,969	9,109	8,192	15,330
Duval	18,629	13,320	190	3,400	1,719	61,297	41,241	1,044	10,243	8,769
Escambia	14,788	11,863	289	1,357	1,279	46,333	36,363	1,093	4,471	4,406
Flagler	17,673	13,787	1,893	1,294	699	55,009	38,464	7,743	5,486	3,316
Franklin	17,146	15,169	946	669	362	25,932	17,444	3,993	3,362	1,133
Gadsden	16,405	10,169	—	3,137	3,099	41,880	16,198	—	12,642	13,040
Gilchrist	9,610	8,349	164	280	817	17,120	13,988	894	-226	2,464
Glades	1,365	894	340	56	75	7,550	4,407	1,955	632	556
Gulf	9,676	7,131	984	1,117	444	25,890	12,257	4,642	7,082	1,909
Hamilton	14,591	11,169	290	1,489	1,643	23,195	13,588	1,293	2,149	6,165
Hardee	3,218	690	958	491	1,079	11,100	4,108	2,731	728	3,533
Hendry	1,890	301	1,664	-118	43	9,046	1,849	7,294	-519	422
Hernando	4,803	3,363	157	445	838	15,512	10,768	561	1,505	2,678
Highlands	1,074	177	524	-17	390	6,461	1,315	3,104	201	1,841
Hillsborough	4,831	644	1,823	969	1,395	22,310	3,337	9,153	5,298	4,522
Holmes	10,514	6,908	165	1,832	1,609	27,138	18,108	728	4,263	4,039
Indian River	270	189	41	11	29	1,286	952	198	—	136
Jackson	14,326	7,403	913	2,743	3,267	43,867	20,529	2,776	7,306	13,256
Jefferson	14,036	6,541	401	3,448	3,646	45,483	16,403	3,013	13,666	12,401
Lafayette	13,043	9,776	355	1,505	1,407	31,597	24,981	2,109	1,297	3,210
Lake	6,361	2,830	871	2,248	412	20,817	7,924	3,605	7,821	1,467
Lee	1,267	1,084	101	—	82	4,011	3,062	949	—	—
Leon	12,403	7,662	24	1,199	3,518	48,075	27,423	60	5,241	15,351
Levy	27,646	20,522	1,859	2,176	3,089	84,793	59,613	8,114	5,640	11,426
Liberty	16,034	10,823	822	3,078	1,311	47,453	26,004	3,657	11,514	6,278
Madison	12,754	8,054	186	2,850	1,664	33,761	17,702	2,855	7,594	5,610
Manatee	1,038	173	—	183	682	4,697	1,002	—	1,124	2,571
Marion	24,848	18,984	170	1,671	4,023	83,759	60,357	1,109	7,980	14,313
Martin	930	611	316	—	3	1,199	1,181	—	—	18
Monroe	—	—	—	—	—	—	—	—	—	—
Nassau	23,255	18,229	216	3,223	1,587	61,003	47,451	2,294	5,737	5,521
Okaloosa	13,659	10,325	188	1,982	1,164	46,143	36,205	1,327	3,975	4,636
Okeechobee	1,193	437	152	319	285	5,639	1,445	754	2,034	1,406
Orange	5,688	2,332	1,801	937	618	25,875	13,021	6,401	3,057	3,396
Osceola	5,561	1,370	2,904	782	505	28,208	7,645	14,697	3,501	2,365
Palm Beach	—	—	—	—	—	—	—	—	—	—
Pasco	2,814	1,114	797	200	703	13,124	3,143	4,894	1,793	3,294
Pinellas	430	237	139	34	20	2,098	1,311	595	192	—
Polk	10,114	3,263	3,323	2,426	1,102	41,112	10,926	13,773	9,801	6,612
Putnam	13,014	11,250	149	835	780	39,217	34,071	963	971	3,212
Santa Rosa	23,752	17,219	1,321	2,625	2,587	83,830	62,496	5,976	8,126	7,232
Sarasota	1,161	846	—	34	281	4,287	3,391	—	323	573
Seminole	2,179	1,259	24	413	483	12,192	6,423	144	2,146	3,479
St. Johns	19,442	15,102	534	2,656	1,150	51,451	36,374	2,165	8,648	4,264
St. Lucie	526	479	41	—	6	2,657	2,420	237	—	—
Sumter	6,038	2,699	1,668	96	1,575	16,312	4,854	7,196	-541	4,803
Suwannee	11,990	8,625	—	382	2,983	27,699	16,754	—	1,271	9,674
Taylor	28,996	22,639	1,423	2,309	2,625	62,638	37,584	6,399	6,945	11,710
Union	6,714	5,514	443	541	216	16,203	11,818	1,595	1,796	994
Volusia	16,864	9,920	2,067	3,693	1,184	49,534	25,276	8,687	9,364	6,207
Wakulla	12,308	8,724	375	1,464	1,745	29,840	17,866	957	4,137	6,880
Walton	22,806	18,253	262	2,380	1,911	66,321	50,668	1,228	9,328	5,097
Washington	13,504	8,145	475	3,118	1,766	29,180	16,700	3,230	3,799	5,451
Total	692,634	488,724	43,029	83,085	77,796	1,965,178	1,225,727	196,484	249,926	293,041

Table 9—Average annual removals of growing stock and sawtimber on timberland, by county and species group, Florida, 1987-1994

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					*Thousand board feet*				
Alachua	18,281	14,534	741	634	2,372	49,275	34,149	3,187	2,344	9,595
Baker	19,337	18,581	694	28	34	42,600	41,604	996	—	—
Bay	18,143	18,088	—	—	55	24,401	24,401	—	—	—
Bradford	3,338	3,189	68	—	81	4,656	4,241	—	—	415
Brevard	3,232	2,071	1,161	—	—	9,014	5,664	3,350	—	—
Broward	—	—	—	—	—	—	—	—	—	—
Calhoun	15,230	14,332	—	322	576	27,959	25,656	—	940	1,363
Charlotte	99	—	—	35	64	366	—	—	—	366
Citrus	4,424	4,128	181	—	115	10,747	10,187	560	—	—
Clay	13,134	11,760	113	775	486	36,356	33,406	387	1,393	1,170
Collier	5,238	434	3,896	454	454	17,605	2,018	11,994	2,191	1,402
Columbia	16,444	14,141	620	1,304	379	48,924	43,334	2,197	2,311	1,082
Dade	—	—	—	—	—	—	—	—	—	—
De Soto	720	439	44	40	197	3,516	2,369	281	—	866
Dixie	23,659	13,769	4,001	3,134	2,755	67,665	36,780	12,056	11,389	7,440
Duval	8,979	5,099	90	1,749	2,041	28,252	16,518	—	4,926	6,808
Escambia	13,818	10,139	—	2,420	1,259	42,638	33,337	—	6,334	2,967
Flagler	15,892	11,816	3,705	371	—	29,202	18,644	9,974	584	—
Franklin	6,591	6,591	—	—	—	8,509	8,509	—	—	—
Gadsden	11,277	7,383	—	2,460	1,434	36,888	20,377	—	9,794	6,717
Gilchrist	4,885	4,885	—	—	—	12,954	12,954	—	—	—
Glades	3,528	3,434	94	—	—	10,909	10,508	401	—	—
Gulf	4,864	4,864	—	—	—	6,518	6,518	—	—	—
Hamilton	13,609	10,499	1,080	1,680	350	28,198	21,342	2,790	3,288	778
Hardee	143	143	—	—	—	—	—	—	—	—
Hendry	3,275	2,727	495	—	53	9,711	8,931	780	—	—
Hernando	2,420	1,120	—	795	505	10,047	5,598	—	2,474	1,975
Highlands	1,080	289	—	506	285	4,233	1,204	—	1,438	1,591
Hillsborough	3,473	328	1,181	544	1,420	14,945	1,920	6,115	2,002	4,908
Holmes	6,276	5,741	—	—	535	24,339	22,496	—	—	1,843
Indian River	180	94	—	—	86	1,047	607	—	—	440
Jackson	22,731	13,400	195	3,352	5,784	87,541	52,835	1,082	11,048	22,576
Jefferson	9,053	7,518	106	323	1,106	36,251	32,401	195	1,150	2,505
Lafayette	17,321	15,214	1,209	490	408	36,884	31,408	2,663	860	1,953
Lake	5,759	1,770	2,841	920	228	18,909	8,785	8,258	998	868
Lee	810	810	—	—	—	1,552	1,552	—	—	—
Leon	10,518	5,683	—	1,528	3,307	39,492	23,980	—	3,096	12,416
Levy	17,889	13,612	1,328	868	2,081	45,890	36,147	2,862	1,752	5,129
Liberty	12,319	9,569	162	957	1,631	31,470	22,807	221	1,881	6,561
Madison	17,010	11,173	1,526	3,630	681	47,294	32,418	5,599	8,697	580
Manatee	815	720	—	—	95	3,720	3,488	—	—	232
Marion	20,506	20,181	—	33	292	47,005	46,522	—	—	483
Martin	—	—	—	—	—	—	—	—	—	—
Monroe	—	—	—	—	—	—	—	—	—	—
Nassau	19,957	18,085	118	564	1,190	52,340	48,400	305	219	3,416
Okaloosa	8,576	8,495	—	44	37	23,735	23,735	—	—	—
Okeechobee	458	458	—	—	—	1,157	1,157	—	—	—
Orange	6,123	2,425	819	1,526	1,353	15,378	4,621	1,792	3,530	5,435
Osceola	3,051	645	2,342	64	—	8,062	2,498	5,343	221	—
Palm Beach	—	—	—	—	—	—	—	—	—	—
Pasco	5,342	3,320	1,611	113	298	16,622	12,121	3,375	—	1,126
Pinellas	752	752	—	—	—	2,871	2,871	—	—	—
Polk	6,451	104	5,462	405	480	14,970	—	11,854	273	2,843
Putnam	12,494	9,927	72	1,851	644	36,210	27,607	329	5,583	2,691
Santa Rosa	19,964	18,719	—	149	1,096	49,366	47,023	—	521	1,822
Sarasota	988	775	—	—	213	2,894	2,894	—	—	—
Seminole	2,332	426	—	791	1,115	10,263	2,066	—	3,547	4,650
St. Johns	16,599	13,060	1,084	1,380	1,075	42,662	33,226	2,138	3,525	3,773
St. Lucie	1,613	1,613	—	—	—	5,219	5,219	—	—	—
Sumter	1,145	730	—	—	415	3,632	2,017	—	—	1,615
Suwannee	3,525	2,368	—	67	1,090	6,758	4,527	—	282	1,949
Taylor	33,044	24,585	1,569	2,717	4,173	72,363	46,805	5,931	7,566	12,061
Union	3,713	3,469	114	130	—	8,799	8,155	452	192	—
Volusia	12,153	9,214	2,414	478	47	32,666	25,198	6,874	594	—
Wakulla	8,711	6,023	—	703	1,985	30,135	21,460	—	2,641	6,034
Walton	11,933	11,585	—	34	314	24,481	24,481	—	—	—
Washington	5,495	4,390	61	470	574	14,869	11,858	—	1,571	1,440
Total	560,719	431,436	41,197	40,838	47,248	1,482,934	1,103,554	114,341	111,155	153,884

Table 10—Area of timberland, by forest type and ownership class, Florida, 1995

Forest type	All ownerships	Ownership class				
		National forest	Other public	Forest industry	Forest industry-leased	Other private
			Acres			
Softwood types						
Longleaf pine	740,488	175,807	225,376	72,716	—	266,589
Slash pine	5,130,856	328,591	425,342	1,994,134	347,153	2,035,636
Loblolly pine	807,284	7,138	23,893	298,972	22,408	454,873
Shortleaf pine	16,908	—	—	9,098	—	7,810
Virginia pine	—	—	—	—	—	—
Sand pine	633,766	187,567	95,899	162,794	—	187,506
Eastern redcedar	—	—	—	—	—	—
Pond pine	108,486	26,351	7,861	14,621	—	59,653
Spruce pine	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—
Total	7,437,788	725,454	778,371	2,552,335	369,561	3,012,067
Hardwood types						
Oak–pine	1,478,980	82,906	222,650	295,567	45,383	832,474
Oak–hickory	1,437,863	14,213	106,046	160,172	32,462	1,124,970
Chestnut oak	—	—	—	—	—	—
Southern scrub oak	575,480	33,809	100,641	29,822	7,851	403,357
Oak–gum–cypress	3,678,526	173,140	589,344	960,800	130,720	1,824,522
Elm–ash–cottonwood	42,023	—	5,198	16,810	—	20,015
Total	7,212,872	304,068	1,023,879	1,463,171	216,416	4,205,338
All types	14,650,660	1,029,522	1,802,250	4,015,506	585,977	7,217,405

Table 11—Area of timberland, by ownership and stocking classes of growing-stock trees, Florida, 1995

Ownership class	All classes	Stocking class (percent)[a]				
		> 130	100-130	60-99	16.7-59	< 16.7
			Acres			
National forest	1,029,522	26,794	228,474	416,224	282,641	75,389
Other public	1,802,250	130,150	291,388	641,611	562,143	176,958
Forest industry	4,015,506	254,178	1,040,302	1,654,515	806,110	260,401
Forest industry-leased	585,977	27,398	222,462	248,026	57,215	30,876
Other private	7,217,405	310,791	1,548,144	2,586,793	1,961,961	809,716
All ownerships	14,650,660	749,311	3,330,770	5,547,169	3,670,070	1,353,340

[a] See stocking standards under "stocking" in definitions.

Table 12— Area of timberland, by forest type and stand-size class, Florida, 1995

Forest type	All stands	Stand-size class: Sawtimber	Poletimber	Sapling-seedling	Nonstocked areas
		Acres			
Softwood types					
Longleaf pine	740,488	402,669	77,826	234,866	25,127
Slash pine	5,130,856	929,449	1,895,627	2,080,133	225,647
Loblolly pine	807,284	164,767	223,559	418,958	—
Shortleaf pine	16,908	7,810	2,693	6,405	—
Virginia pine	—	—	—	—	—
Sand pine	633,766	95,113	205,217	323,836	9,600
Eastern redcedar	—	—	—	—	—
Pond pine	108,486	54,898	32,290	18,326	2,972
Spruce pine	—	—	—	—	—
Pitch pine	—	—	—	—	—
Table Mountain pine	—	—	—	—	—
Total	7,437,788	1,654,706	2,437,212	3,082,524	263,346
Hardwood types					
Oak–pine	1,478,980	457,015	267,811	738,455	15,699
Oak–hickory	1,437,863	631,019	287,550	497,081	22,213
Chestnut oak	—	—	—	—	—
Southern scrub oak	575,480	20,384	62,311	482,600	10,185
Oak–gum–cypress	3,678,526	2,012,853	957,186	592,278	116,209
Elm–ash–cottonwood	42,023	10,703	11,976	19,344	—
Total	7,212,872	3,131,974	1,586,834	2,329,758	164,306
All types	14,650,660	4,786,680	4,024,046	5,412,282	427,652

Table 13— Area of timberland, by stand-age and broad management classes, all ownerships, Florida, 1995

Stand-age class (years)	All classes	Broad management class: Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood
		Acres				
0-10	2,935,883	2,059,867	257,700	277,020	206,784	134,512
11-20	1,980,683	1,404,645	241,655	132,090	112,707	89,586
21-30	1,248,987	806,973	191,965	55,825	72,706	121,518
31-40	807,063	255,791	275,386	61,062	36,314	178,510
41-50	915,265	24,951	373,664	100,680	80,610	335,360
51-60	890,426	6,855	291,587	96,744	85,138	410,102
61-70	736,372	—	189,280	55,820	53,989	437,283
71-80	482,820	2,579	56,507	26,390	42,259	355,085
81+	681,444	—	43,087	55,638	73,707	509,012
No manageable stand	3,971,717	72,066	883,230	617,711	1,249,129	1,149,581
All classes	14,650,660	4,633,727	2,804,061	1,478,980	2,013,343	3,720,549

Table 14— Area of timberland, by stand-age and broad management classes, public ownerships, Florida, 1995

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood
			Acres			
0-10	253,516	132,960	52,812	39,965	9,176	18,603
11-20	245,796	169,421	44,701	11,179	16,216	4,279
21-30	200,162	137,514	36,071	9,429	3,190	13,958
31-40	167,340	45,625	88,093	7,513	—	26,109
41-50	212,503	14,905	137,516	17,334	4,249	38,499
51-60	271,837	2,064	172,139	16,644	—	80,990
61-70	277,144	—	130,738	17,282	2,730	126,394
71-80	143,706	—	41,166	2,669	—	99,871
81+	215,462	—	37,888	10,436	10,118	157,020
No manageable stand	844,306	18,961	241,251	173,105	209,030	201,959
All classes	2,831,772	521,450	982,375	305,556	254,709	767,682

Table 15— Area of timberland, by stand-age and broad management classes, forest industry,[a] Florida, 1995

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood
			Acres			
0-10	1,321,432	1,100,272	44,172	83,647	42,138	51,203
11-20	946,806	794,074	36,012	57,351	14,534	44,835
21-30	521,349	449,095	19,275	13,542	4,707	34,730
31-40	201,485	102,844	33,848	10,914	5,672	48,207
41-50	220,222	5,552	71,027	22,022	8,390	113,231
51-60	195,424	2,393	30,185	36,277	2,641	123,928
61-70	169,019	—	27,332	11,087	14,250	116,350
71-80	98,376	2,579	5,376	3,203	10,649	76,569
81+	133,147	—	2,579	14,654	3,031	112,883
No manageable stand	794,223	25,193	170,088	88,253	124,295	386,394
All classes	4,601,483	2,482,002	439,894	340,950	230,307	1,108,330

[a] Includes 585,977 acres of other private land under long-term lease.

Table 16— Area of timberland, by stand-age and broad management classes, other private ownerships,[a] Florida, 1995

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood
		Acres				
0-10	1,360,935	826,635	160,716	153,408	155,470	64,706
11-20	788,081	441,150	160,942	63,560	81,957	40,472
21-30	527,476	220,364	136,619	32,854	64,809	72,830
31-40	438,238	107,322	153,445	42,635	30,642	104,194
41-50	482,540	4,494	165,121	61,324	67,971	183,630
51-60	423,165	2,398	89,263	43,823	82,497	205,184
61-70	290,209	—	31,210	27,451	37,009	194,539
71-80	240,738	—	9,965	20,518	31,610	178,645
81+	332,835	—	2,620	30,548	60,558	239,109
No manageable stand	2,333,188	27,912	471,891	356,353	915,804	561,228
All classes	7,217,405	1,630,275	1,381,792	832,474	1,528,327	1,844,537

[a] Excludes 585,977 acres of other private land under long-term lease to forest industry.

Table 17—Area of timberland, by broad management and stand-volume classes, Florida, 1995

Broad management class	All classes	Stand-volume class (cubic feet of growing stock per acre)				
		0-499	500-999	1000-1499	1500-1999	2000+
		Acres				
Pine plantation	4,633,727	2,695,632	734,026	562,283	331,840	309,946
Natural pine	2,804,061	1,023,368	515,306	399,307	315,096	550,984
Oak–pine	1,478,980	763,373	275,523	157,034	67,486	215,564
Upland hardwood	2,013,343	1,222,042	301,239	156,585	149,588	183,889
Lowland hardwood	3,720,549	914,599	477,120	459,799	448,890	1,420,141
All classes	14,650,660	6,619,014	2,303,214	1,735,008	1,312,900	2,680,524

Table 18—Volume of growing stock on timberland, by broad management class, species group, and stand-age class, Florida, 1995

Broad management class and species group	All classes	No manageable stand	Stand-age class (years)								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
			Thousand cubic feet								
Pine plantation											
Softwood	2,743,583	17,555	132,993	1,009,979	1,121,288	399,674	40,033	15,083	—	6,978	—
Hardwood	51,984	517	6,035	17,512	21,512	6,160	—	248	—	—	—
Total	2,795,567	18,072	139,028	1,027,491	1,142,800	405,834	40,033	15,331	—	6,978	—
Natural pine											
Softwood	3,082,014	322,984	64,452	136,270	199,199	439,668	682,264	606,349	393,768	125,562	111,498
Hardwood	216,390	9,821	8,778	11,192	11,536	22,322	47,211	55,647	32,668	3,443	13,772
Total	3,298,404	332,805	73,230	147,462	210,735	461,990	729,475	661,996	426,436	129,005	125,270
Oak–pine											
Softwood	867,418	208,671	34,098	39,695	33,702	48,172	111,338	160,284	83,326	40,908	107,224
Hardwood	480,032	46,035	17,573	16,767	17,912	29,303	81,632	114,853	62,927	32,524	60,506
Total	1,347,450	254,706	51,671	56,462	51,614	77,475	192,970	275,137	146,253	73,432	167,730
Upland hardwood											
Softwood	156,993	73,159	11,803	12,084	14,052	8,360	10,542	14,342	4,003	4,923	3,725
Hardwood	1,100,456	259,495	45,006	41,625	65,481	46,659	134,938	162,805	99,811	79,856	164,780
Total	1,257,449	332,654	56,809	53,709	79,533	55,019	145,480	177,147	103,814	84,779	168,505
Lowland hardwood											
Softwood	2,574,426	152,372	17,231	8,463	44,664	103,403	173,378	317,243	468,257	432,056	857,359
Hardwood	4,093,135	375,763	23,694	27,507	73,147	164,300	465,337	712,394	741,543	651,578	857,872
Total	6,667,561	528,135	40,925	35,970	117,811	267,703	638,715	1,029,637	1,209,800	1,083,634	1,715,231
All types											
Softwood	9,424,434	774,741	260,577	1,206,491	1,412,905	999,277	1,017,555	1,113,301	949,354	610,427	1,079,806
Hardwood	5,941,997	691,631	101,086	114,603	189,588	268,744	729,118	1,045,947	936,949	767,401	1,096,930
Total	15,366,431	1,466,372	361,663	1,321,094	1,602,493	1,268,021	1,746,673	2,159,248	1,886,303	1,377,828	2,176,736

Table 19—Average net annual growth of growing stock on timberland, by broad management class, species group, and stand-age class, Florida, 1987-1994

Broad management class[a] and species group	All classes	No manageable stand	Stand-age class (years)[a]								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
			Thousand cubic feet								
Pine plantation											
Softwood	327,990	4,298	112,777	130,844	70,018	8,683	1,063	211	96	—	—
Hardwood	5,105	22	734	1,855	2,194	263	37	—	—	—	—
Total	333,095	4,320	113,511	132,699	72,212	8,946	1,100	211	96	—	—
Natural pine											
Softwood	114,729	18,448	7,494	13,604	20,167	25,716	16,654	8,900	1,565	1,793	388
Hardwood	11,517	1,385	714	776	1,086	2,091	3,374	1,267	394	311	119
Total	126,246	19,833	8,208	14,380	21,253	27,807	20,028	10,167	1,959	2,104	507
Oak–pine											
Softwood	27,886	7,241	4,535	4,198	1,606	2,662	4,713	1,596	491	508	336
Hardwood	15,193	2,841	963	1,073	1,175	2,851	3,650	994	1,020	248	378
Total	43,079	10,082	5,498	5,271	2,781	5,513	8,363	2,590	1,511	756	714
Upland hardwood											
Softwood	7,900	4,167	1,331	797	687	245	265	403	77	-88	16
Hardwood	34,185	11,868	1,648	4,036	2,237	3,115	3,944	3,002	2,096	604	1,635
Total	42,085	16,035	2,979	4,833	2,924	3,360	4,209	3,405	2,173	516	1,651
Lowland hardwood											
Softwood	53,248	5,989	1,375	1,240	2,516	3,636	6,271	10,099	7,818	5,972	8,332
Hardwood	94,881	16,136	2,346	2,942	5,203	12,020	15,707	13,990	11,065	6,711	8,761
Total	148,129	22,125	3,721	4,182	7,719	15,656	21,978	24,089	18,883	12,683	17,093
All types											
Softwood	531,753	40,143	127,512	150,683	94,994	40,942	28,966	21,209	10,047	8,185	9,072
Hardwood	160,881	32,252	6,405	10,682	11,895	20,340	26,712	19,253	14,575	7,874	10,893
Total	692,634	72,395	133,917	161,365	106,889	61,282	55,678	40,462	24,622	16,059	19,965

[a] Classifications at the beginning of the remeasurement period.

Table 20—Average annual removals of growing stock on timberland, by broad management class, species group, and stand-age class, Florida, 1987-1994

Broad management class[a] and species group	All classes	No manageable stand	Stand-age class (years)[a]								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
	Thousand cubic feet										
Pine plantation											
Softwood	228,978	767	2,206	57,403	141,467	24,000	2,210	925	—	—	—
Hardwood	2,162	—	44	280	1,624	158	56	—	—	—	—
Total	231,140	767	2,250	57,683	143,091	24,158	2,266	925	—	—	—
Natural pine											
Softwood	168,192	18,255	2,820	5,125	22,005	51,290	40,488	17,209	9,188	1,161	651
Hardwood	5,326	289	—	147	1,000	1,255	1,686	715	198	36	—
Total	173,518	18,544	2,820	5,272	23,005	52,545	42,174	17,924	9,386	1,197	651
Oak–pine											
Softwood	26,588	5,726	937	1,184	2,828	3,093	7,875	3,866	956	123	—
Hardwood	6,150	658	63	144	227	1,408	2,256	1,058	336	—	—
Total	32,738	6,384	1,000	1,328	3,055	4,501	10,131	4,924	1,292	123	—
Upland hardwood											
Softwood	4,253	2,177	139	426	177	385	169	102	324	—	354
Hardwood	16,618	4,846	700	1,605	436	2,467	2,429	1,665	351	74	2,045
Total	20,871	7,023	839	2,031	613	2,852	2,598	1,767	675	74	2,399
Lowland hardwood											
Softwood	44,622	2,754	—	246	590	3,690	3,723	12,088	6,426	4,050	11,055
Hardwood	57,830	5,575	375	506	702	5,385	8,187	17,170	10,513	3,694	5,723
Total	102,452	8,329	375	752	1,292	9,075	11,910	29,258	16,939	7,744	16,778
All types											
Softwood	472,633	29,679	6,102	64,384	167,067	82,458	54,465	34,190	16,894	5,334	12,060
Hardwood	88,086	11,368	1,182	2,682	3,989	10,673	14,614	20,608	11,398	3,804	7,768
Total	560,719	41,047	7,284	67,066	171,056	93,131	69,079	54,798	28,292	9,138	19,828

[a] Classifications at the beginning of the remeasurement period.

Table 21—Merchantable volume of live trees and growing stock on timberland, by forest-type and species groups, Florida, 1995

Forest-type group	Live trees					Growing stock				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
Longleaf–slash pine	4,922,176	4,598,210	57,307	127,829	138,830	4,823,488	4,585,724	53,468	116,633	67,663
Loblolly–shortleaf pine	1,306,771	1,190,948	2,552	38,000	75,271	1,270,483	1,183,853	2,552	34,175	49,903
Oak–pine	1,525,332	759,545	116,889	301,345	347,553	1,347,450	754,489	112,929	271,620	208,412
Oak–hickory	1,745,055	153,189	6,405	243,296	1,342,165	1,257,449	151,035	5,958	219,972	880,484
Oak–gum–cypress	7,467,842	299,509	2,337,649	3,332,213	1,498,471	6,626,756	298,332	2,272,652	2,923,187	1,132,585
Elm–ash–cottonwood	48,504	1,662	1,780	29,103	15,959	40,805	1,662	1,780	25,074	12,289
All types	17,015,680	7,003,063	2,522,582	4,071,786	3,418,249	15,366,431	6,975,095	2,449,339	3,590,661	2,351,336

Table 22—Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and ownership class, Florida, 1987 to 1995

Treatment or disturbance	All ownerships	Ownership class			
		Public	Forest industry	Forest industry-leased	Other private
	Acres[a]				
Final harvest	248,507	20,445	112,204	18,382	97,476
Partial harvest[b]	21,495	2,621	5,448	1,728	11,698
Commercial thinning	41,217	8,092	15,351	2,390	15,384
Other stand improvement	6,254	956	1,603	—	3,695
Site preparation	190,630	16,846	105,078	15,252	53,454
Artificial regeneration[c]	239,762	16,861	113,772	13,448	95,681
Natural regeneration[c]	71,152	5,888	13,548	1,597	50,119
Other treatment	73,832	12,415	12,796	1,514	47,107
Natural disturbance	102,665	14,152	17,149	3,533	67,831

[a] Since some acres experience more than one treatment or disturbance, there are no column totals.

[b] Includes high-grading and some selective cutting.

[c] Includes establishment of trees for timber production on forest and nonforest land.

Table 23—Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and broad management class, Florida, 1987 to 1995

Treatment or disturbance	All classes	Broad management class[a]				
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood
		Acres[b]				
Final harvest	248,507	116,176	80,239	12,947	5,943	33,202
Partial harvest[c]	21,495	381	7,867	4,798	1,670	6,779
Commercial thinning	41,217	31,184	8,686	703	—	644
Other stand improvement	6,254	2,510	1,794	729	809	412
Site preparation	190,630	88,988	57,522	10,200	19,674	14,246
Other treatment	73,832	1,916	29,677	11,933	13,988	16,318
Natural disturbance	102,665	34,025	22,131	6,209	8,785	31,515

[a] Classification before treatment or disturbance.

[b] Since some acres experience more than one treatment or disturbance, there are no column totals.

[c] Includes high-grading and some selective cutting.

Table 24—Area of timberland regenerated annually, by type of regeneration and broad management class, Florida, 1987 to 1995

Type of regeneration	All classes	Broad management class[a]				
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood
		Acres				
Artificial regeneration following harvest	123,234	112,314	—	8,355	1,976	589
Natural regeneration following harvest	30,302	—	7,259	3,442	11,627	7,974
Other artificial regeneration on forest land	74,510	67,592	—	6,918	—	—
Other natural regeneration on forest land	27,891	—	12,447	4,848	6,212	4,384
Artificial regeneration on nonforest land	42,018	40,237	—	1,781	—	—
Natural reversion of nonforest land	12,959	—	7,252	2,205	2,040	1,462
Total	310,914	220,143	26,958	27,549	21,855	14,409

[a] Classification after regeneration.

Table 25—Area of timberland, by treatment opportunity and broad management classes, Florida, 1995

Treatment opportunity class	All classes	Broad management class				
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood
		Acres				
Salvage	65,486	15,818	20,664	2,362	2,472	24,170
Harvest	574,915	2,579	78,824	65,807	70,016	357,689
Commercial thinning	550,561	460,179	53,651	2,916	—	33,815
Other stand improvement	730,511	155,296	174,700	97,904	159,244	143,367
Stand conversion	79,973	12,767	—	22,095	27,323	17,788
Regeneration	3,733,346	72,066	868,941	606,698	1,249,129	936,512
Stand in relatively good condition	7,988,630	3,915,022	1,584,593	660,109	505,159	1,323,747
Adverse sites[a]	927,238	—	22,688	21,089	—	883,461
All classes	14,650,660	4,633,727	2,804,061	1,478,980	2,013,343	3,720,549

[a] Areas where management opportunities are severely limited because of steep slopes or poor drainage.

Table 26—Area of timberland, by treatment opportunity and ownership classes, Florida, 1995

Treatment opportunity class	All ownerships	Ownership class			
		Public	Forest industry	Forest industry-leased	Other private
		Acres			
Salvage	65,486	13,064	23,748	—	28,674
Harvest	574,915	171,278	101,008	2,847	299,782
Commercial thinning	550,561	49,399	220,819	56,736	223,607
Other stand improvement	730,511	136,729	149,044	26,727	418,011
Stand conversion	79,973	11,402	24,200	—	44,371
Regeneration	3,733,346	777,946	667,120	57,409	2,230,871
Stand in relatively good condition	7,988,630	1,398,256	2,607,017	412,175	3,571,182
Adverse sites[a]	927,238	273,698	222,550	30,083	400,907
All classes	14,650,660	2,831,772	4,015,506	585,977	7,217,405

[a] Areas where management opportunities are severely limited because of steep slopes or poor drainage.

Table 27—Merchantable volume of live trees and growing stock on timberland, by ownership class and species group, Florida, 1995

Ownership class	Live trees					Growing stock				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
National forest	1,338,104	865,532	140,866	251,145	80,561	1,263,662	864,070	130,912	216,194	52,486
Other public	2,921,530	1,096,983	465,631	753,717	605,199	2,607,402	1,092,836	449,624	664,242	400,700
Forest industry	3,776,745	1,847,574	484,150	955,262	489,759	3,541,516	1,840,314	471,036	859,168	370,998
Forest industry-leased	500,421	253,078	56,644	127,955	62,744	476,442	252,444	56,181	117,363	50,454
Other private	8,478,880	2,939,896	1,375,291	1,983,707	2,179,986	7,477,409	2,925,431	1,341,586	1,733,694	1,476,698
All ownerships	17,015,680	7,003,063	2,522,582	4,071,786	3,418,249	15,366,431	6,975,095	2,449,339	3,590,661	2,351,336

Table 28—Volume of sawtimber on timberland, by ownership class and species group, Florida, 1995

Ownership class	Small sawtimber[a]					Large sawtimber[b]				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand board feet									
National forest	2,609,666	2,116,546	235,603	200,767	56,750	1,417,278	837,605	171,938	291,467	116,268
Other public	4,579,364	2,591,402	860,869	767,707	359,386	4,393,318	1,675,093	665,170	1,097,370	955,685
Forest industry	5,081,181	2,875,505	892,278	959,441	353,957	3,603,869	1,052,572	513,402	1,135,443	902,452
Forest industry-leased	560,693	282,515	111,729	120,873	45,576	453,913	196,753	35,332	93,755	128,073
Other private	11,295,986	5,387,924	2,576,041	1,925,474	1,406,547	11,291,962	3,715,232	1,518,030	2,411,537	3,647,163
All ownerships	24,126,890	13,253,892	4,676,520	3,974,262	2,222,216	21,160,340	7,477,255	2,903,872	5,029,572	5,749,641

[a] Volume of sawtimber trees less than 15.0 inches at d.b.h.
[b] Volume of sawtimber trees 15.0 inches and larger at d.b.h.

Table 29—Average net annual growth and removals of growing stock on timberland, by ownership class and species group, Florida, 1987-1994

Ownership class	Net annual growth					Annual timber removals				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
National forest	32,823	26,373	1,370	3,894	1,186	20,500	20,500	—	—	—
Other public	69,732	39,454	7,519	12,490	10,269	47,056	30,842	3,439	4,865	7,910
Forest industry	229,775	188,369	6,685	20,575	14,146	207,973	172,210	11,054	12,024	12,685
Forest industry-leased	36,554	30,153	755	4,012	1,634	36,597	31,189	2,571	2,503	334
Other private	323,750	204,375	26,700	42,114	50,561	248,593	176,695	24,133	21,446	26,319
All ownerships	692,634	488,724	43,029	83,085	77,796	560,719	431,436	41,197	40,838	47,248

Table 30—Average net annual growth and removals of sawtimber on timberland, by ownership class and species group, Florida, 1987-1994

Ownership class	Net annual growth					Annual timber removals				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand board feet									
National forest	104,010	82,805	5,653	10,229	5,323	56,716	56,716	—	—	—
Other public	268,748	144,524	37,244	45,436	41,544	162,643	107,564	10,598	15,336	29,145
Forest industry	527,853	389,906	33,402	55,857	48,688	450,970	349,053	34,588	32,362	34,967
Forest industry-leased	75,520	55,713	3,476	11,071	5,260	59,494	48,587	5,561	4,541	805
Other private	989,047	552,779	116,709	127,333	192,226	753,111	541,634	63,594	58,916	88,967
All ownerships	1,965,178	1,225,727	196,484	249,926	293,041	1,482,934	1,103,554	114,341	111,155	153,884

Table 31—Volume of timber on timberland, by class of timber and species group, Florida, 1995

Class of timber	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet				
Sawtimber trees					
Saw-log portion	8,584,865	3,810,749	1,563,513	1,762,254	1,448,349
Upper-stem portion[a]	1,201,485	390,683	220,361	363,198	227,243
Total	9,786,350	4,201,432	1,783,874	2,125,452	1,675,592
Poletimber trees	5,580,081	2,773,663	665,465	1,465,209	675,744
All growing-stock trees	15,366,431	6,975,095	2,449,339	3,590,661	2,351,336
Rough trees					
Sawtimber size	759,290	11,710	21,478	170,389	555,713
Poletimber size	695,916	14,603	22,667	230,128	428,518
Total	1,455,206	26,313	44,145	400,517	984,231
Rotten trees					
Sawtimber size	171,138	1,212	26,072	68,349	75,505
Poletimber size	22,905	443	3,026	12,259	7,177
Total	194,043	1,655	29,098	80,608	82,682
Salvable dead trees					
Sawtimber size	7,024	4,751	649	977	647
Poletimber size	3,958	2,354	732	565	307
Total	10,982	7,105	1,381	1,542	954
Total, all timber	17,026,662	7,010,168	2,523,963	4,073,328	3,419,203

[a] Includes cull sections in the saw-log portion.

Table 32—Number of live trees on timberland, by species and diameter class, Florida, 1995

Species	All classes	Diameter class (inches at breast height) 1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
						Thousand trees							
Softwood													
Longleaf pine	179,618	75,181	34,336	17,424	11,961	13,737	13,139	8,624	3,764	993	346	113	—
Slash pine	1,752,081	530,791	547,152	381,953	177,263	63,338	26,989	13,280	6,453	2,997	1,188	666	11
Shortleaf pine	4,483	1,846	499	624	506	155	234	238	216	76	49	40	—
Loblolly pine	327,082	118,507	107,765	57,262	20,255	9,103	5,502	3,261	2,301	1,284	915	897	30
Pond pine	24,930	5,012	6,423	3,780	3,701	2,334	1,549	1,188	517	255	85	86	—
Virginia pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Spruce pine	5,357	3,310	659	211	521	149	133	111	79	82	57	41	4
Sand pine	342,365	169,185	101,460	42,125	18,010	6,026	3,095	1,410	712	214	107	21	—
Eastern white pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Eastern hemlock	—	—	—	—	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—	—	—	—	—
Baldcypress	68,636	18,232	14,169	9,606	8,145	6,177	4,391	3,567	1,966	1,089	595	594	105
Pondcypress	591,798	264,064	136,498	74,663	48,761	31,565	18,517	9,962	4,261	1,784	885	776	62
Cedars	33,503	16,750	6,153	3,217	2,331	1,998	1,375	852	401	211	132	79	4
Total softwoods	3,329,853	1,202,878	955,114	590,865	291,454	134,582	74,924	42,493	20,670	8,985	4,359	3,313	216
Hardwood													
Select white oaks	8,555	3,955	1,982	1,183	539	235	268	121	89	74	58	44	7
Select red oaks	430	340	—	—	67	—	—	16	—	—	—	7	—
Chestnut oak	—	—	—	—	—	—	—	—	—	—	—	—	—
Other white oaks	229,683	123,330	50,582	20,579	9,833	6,476	4,555	3,216	3,134	2,064	1,608	3,176	1,130
Other red oaks	830,230	574,266	126,593	51,582	26,785	17,905	13,001	7,724	4,677	3,091	1,892	2,274	440
Hickory	30,755	18,307	3,806	3,340	1,359	1,312	639	774	480	330	164	233	11
Yellow birch	—	—	—	—	—	—	—	—	—	—	—	—	—
Hard maple	6,184	4,056	848	485	307	124	112	146	20	39	9	38	—
Soft maple	283,167	177,912	52,083	20,518	12,724	8,202	4,245	3,496	1,928	932	575	507	45
Beech	1,993	1,317	331	83	63	39	—	37	28	24	17	50	4
Sweetgum	233,007	138,247	45,382	19,950	9,983	7,889	4,744	3,371	1,704	796	471	442	28
Tupelo and blackgum	716,527	379,052	164,292	74,373	40,938	22,740	15,450	9,305	4,997	2,666	1,272	1,293	149
Ash	252,925	148,755	55,672	23,745	10,345	6,538	3,514	1,798	1,208	671	347	313	19
Cottonwood	419	342	—	—	71	—	—	—	—	—	—	6	—
Basswood	5,381	2,911	1,303	328	354	107	88	118	92	47	10	23	—
Yellow-poplar	15,372	6,759	3,336	1,842	787	1,068	528	385	233	184	134	108	8
Bay and magnolia	576,636	338,705	123,621	53,658	25,872	14,969	9,282	5,278	2,626	1,299	628	656	42
Black cherry	28,693	19,341	5,667	1,890	1,076	409	130	76	57	36	11	—	—
Black walnut	441	168	168	105	—	—	—	—	—	—	—	—	—
Sycamore	411	—	157	—	72	—	47	39	15	35	19	19	8
Black locust	—	—	—	—	—	—	—	—	—	—	—	—	—
Elm	43,750	21,310	12,040	4,389	2,336	1,516	768	629	333	211	89	121	8
Other Eastern hardwoods	1,039,628	778,790	175,357	52,195	18,156	8,732	3,095	1,641	769	428	254	176	35
Total hardwoods	4,304,187	2,737,863	823,220	330,245	161,667	98,261	60,466	38,170	22,390	12,927	7,558	9,486	1,934
All species	7,634,040	3,940,741	1,778,334	921,110	453,121	232,843	135,390	80,663	43,060	21,912	11,917	12,799	2,150

Table 33—Number of growing-stock trees on timberland, by species and diameter class, Florida, 1995

Species	All classes	Diameter class (inches at breast height) 1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
						Thousand trees							
Softwood													
Longleaf pine	175,735	71,885	34,171	17,120	11,961	13,737	13,062	8,605	3,747	993	346	108	—
Slash pine	1,726,560	513,651	542,401	379,127	176,824	63,068	26,966	13,241	6,438	2,985	1,188	660	11
Shortleaf pine	4,068	1,508	499	624	429	155	234	238	216	76	49	40	—
Loblolly pine	320,793	114,915	106,302	56,344	20,111	8,986	5,472	3,242	2,301	1,284	915	891	30
Pond pine	22,575	4,070	5,479	3,408	3,650	2,301	1,549	1,188	504	255	85	86	—
Virginia pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Spruce pine	4,528	2,481	659	211	521	149	133	111	79	82	57	41	4
Sand pine	328,971	158,094	100,041	41,702	17,745	5,914	3,028	1,393	712	214	107	21	—
Eastern white pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Eastern hemlock	—	—	—	—	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—	—	—	—	—
Baldcypress	61,384	12,910	12,851	9,467	7,945	6,177	4,368	3,505	1,919	1,078	595	533	36
Pondcypress	531,362	225,867	124,456	69,650	46,319	30,304	17,977	9,642	3,975	1,652	817	663	40
Cedars	29,991	15,378	4,875	2,991	1,975	1,887	1,222	852	385	211	132	79	4
Total softwoods	3,205,967	1,120,759	931,734	580,644	287,480	132,678	74,011	42,017	20,276	8,830	4,291	3,122	125
Hardwood													
Select white oaks	5,935	2,137	1,477	986	472	235	241	121	89	74	58	38	7
Select red oaks	90	—	—	—	67	—	—	16	—	—	—	7	—
Chestnut oak	—	—	—	—	—	—	—	—	—	—	—	—	—
Other white oaks	42,018	16,075	9,070	4,269	3,239	1,799	1,165	1,254	1,320	885	737	1,617	588
Other red oaks	531,889	327,027	96,606	42,201	22,391	15,816	11,352	6,597	3,835	2,519	1,535	1,732	278
Hickory	14,138	4,974	1,746	2,802	995	1,204	586	719	408	318	155	220	11
Yellow birch	—	—	—	—	—	—	—	—	—	—	—	—	—
Hard maple	1,238	321	—	274	307	87	57	86	20	39	9	38	—
Soft maple	121,155	56,079	28,365	12,732	8,953	6,048	3,237	2,695	1,392	766	464	399	25
Beech	1,121	652	175	83	63	39	—	37	—	24	17	27	4
Sweetgum	167,608	85,861	34,994	18,644	9,496	7,541	4,613	3,216	1,646	735	462	385	15
Tupelo and blackgum	391,743	132,619	112,889	61,084	34,935	19,995	13,317	8,241	4,402	2,259	998	918	86
Ash	86,315	37,784	18,589	12,121	6,393	5,051	2,932	1,403	940	602	256	241	3
Cottonwood	71	—	—	—	71	—	—	—	—	—	—	—	—
Basswood	2,920	1,616	644	125	177	65	50	98	77	35	10	23	—
Yellow-poplar	13,806	5,768	2,851	1,842	731	1,068	528	385	233	184	125	83	8
Bay and magnolia	368,085	193,993	80,789	42,608	21,480	12,196	8,072	4,542	2,200	1,172	470	529	34
Black cherry	15,437	8,189	4,058	1,543	1,012	361	105	76	57	25	11	—	—
Black walnut	—	—	—	—	—	—	—	—	—	—	—	—	—
Sycamore	411	—	157	—	72	—	47	39	15	35	19	19	8
Black locust	—	—	—	—	—	—	—	—	—	—	—	—	—
Elm	21,169	7,137	6,736	2,645	1,855	1,116	472	588	275	165	71	105	4
Other Eastern hardwoods	19,779	9,191	5,186	2,447	1,200	672	472	334	167	35	45	30	—
Total hardwoods	1,804,928	889,423	404,332	206,406	113,909	73,293	47,246	30,447	17,076	9,872	5,442	6,411	1,071
All species	5,010,895	2,010,182	1,336,066	787,050	401,389	205,971	121,257	72,464	37,352	18,702	9,733	9,533	1,196

Table 34—Merchantable volume of live trees on timberland, by species and diameter class, Florida, 1995

Species	All classes	Diameter class (inches at breast height) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
Softwood											
Longleaf pine	1,060,209	49,323	83,528	183,216	268,901	251,461	145,298	49,284	20,112	9,086	—
Slash pine	4,317,503	968,493	1,114,448	758,492	529,557	387,409	259,257	156,378	78,675	62,704	2,090
Shortleaf pine	39,444	1,734	3,026	1,884	5,010	7,882	9,133	3,907	3,262	3,606	—
Loblolly pine	898,994	140,432	114,659	106,733	107,076	99,380	94,834	70,484	65,868	92,828	6,700
Pond pine	161,647	9,767	22,379	26,185	27,996	30,655	19,686	11,666	5,622	7,691	—
Virginia pine	—	—	—	—	—	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—	—	—	—	—	—
Spruce pine	30,602	982	3,883	1,783	2,440	3,929	3,888	4,676	3,840	4,332	849
Sand pine	494,664	137,640	138,415	76,386	59,766	39,437	25,215	10,421	5,855	1,529	—
Eastern white pine	—	—	—	—	—	—	—	—	—	—	—
Eastern hemlock	—	—	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—	—	—
Baldcypress	556,818	32,022	57,036	74,136	79,395	94,655	71,305	50,597	34,884	46,585	16,203
Pondcypress	1,840,670	243,583	336,297	367,713	323,784	248,558	140,615	74,971	44,594	52,651	7,904
Cedars	125,094	9,071	13,149	20,570	22,065	22,032	13,701	9,588	7,736	6,606	576
Total softwoods	9,525,645	1,593,047	1,886,820	1,617,098	1,425,990	1,185,398	782,932	441,972	270,448	287,618	34,322
Hardwood											
Select white oaks	31,543	3,277	2,430	2,724	4,534	3,135	3,721	3,738	3,726	2,996	1,262
Select red oaks	1,606	—	375	—	—	588	—	—	—	643	—
Chestnut oak	—	—	—	—	—	—	—	—	—	—	—
Other white oaks	900,564	46,838	45,405	52,173	56,617	60,082	81,925	70,865	72,588	224,300	189,771
Other red oaks	1,568,968	146,688	160,035	197,464	225,629	188,201	154,819	135,868	104,192	188,520	67,552
Hickory	131,970	8,078	7,865	14,669	11,383	20,829	17,938	16,866	11,190	21,314	1,838
Yellow birch	—	—	—	—	—	—	—	—	—	—	—
Hard maple	16,159	1,282	1,742	1,202	1,891	3,414	608	1,937	625	3,458	—
Soft maple	561,725	57,029	76,206	88,159	73,637	84,702	63,141	41,112	32,705	38,946	6,088
Beech	9,686	307	419	584	—	974	582	1,044	1,042	3,850	884
Sweetgum	584,877	52,447	62,472	97,375	93,162	96,083	65,793	41,913	31,954	39,946	3,732
Tupelo and blackgum	1,658,769	207,136	242,446	252,450	269,840	236,257	170,005	112,511	62,302	87,403	18,419
Ash	419,310	56,464	58,980	73,409	64,821	45,630	41,948	32,083	19,095	24,974	1,906
Cottonwood	585	—	283	—	—	—	—	—	—	302	—
Basswood	15,897	991	1,991	1,409	1,227	2,788	3,189	1,897	567	1,838	—
Yellow-poplar	85,251	6,265	6,043	12,687	10,322	10,190	10,089	9,825	8,492	10,158	1,180
Bay and magnolia	982,422	148,834	157,429	161,595	155,675	126,316	85,447	57,276	33,478	50,175	6,197
Black cherry	23,759	5,051	6,042	4,600	2,298	2,062	1,653	1,674	379	—	—
Black walnut	232	232	—	—	—	—	—	—	—	—	—
Sycamore	9,542	—	453	—	889	1,107	530	1,867	1,210	1,836	1,650
Black locust	—	—	—	—	—	—	—	—	—	—	—
Elm	105,949	9,920	13,252	15,716	12,041	15,497	13,230	9,168	5,382	10,573	1,170
Other Eastern hardwoods	381,221	101,153	76,795	70,164	41,910	31,637	20,096	15,598	11,187	9,753	2,928
Total hardwoods	7,490,035	851,992	920,663	1,046,380	1,025,876	929,492	734,714	555,242	400,114	720,985	304,577
All species	17,015,680	2,445,039	2,807,483	2,663,478	2,451,866	2,114,890	1,517,646	997,214	670,562	1,008,603	338,899

Table 35—Volume of growing stock on timberland, by species and diameter class, Florida, 1995

Species	All classes	Diameter class (inches at breast height) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand cubic feet										
Softwood											
Longleaf pine	1,057,491	48,409	83,528	183,216	268,068	251,033	145,044	49,284	20,112	8,797	—
Slash pine	4,304,676	963,071	1,112,129	756,286	528,928	386,673	258,617	155,795	78,675	62,412	2,090
Shortleaf pine	39,139	1,734	2,721	1,884	5,010	7,882	9,133	3,907	3,262	3,606	—
Loblolly pine	893,514	138,626	113,900	105,715	106,522	98,548	94,834	70,484	65,868	92,317	6,700
Pond pine	160,074	9,115	22,163	25,837	27,996	30,655	19,329	11,666	5,622	7,691	—
Virginia pine	—	—	—	—	—	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—	—	—	—	—	—
Spruce pine	30,602	982	3,883	1,783	2,440	3,929	3,888	4,676	3,840	4,332	849
Sand pine	489,599	136,533	136,869	75,393	58,667	39,117	25,215	10,421	5,855	1,529	—
Eastern white pine	—	—	—	—	—	—	—	—	—	—	—
Eastern hemlock	—	—	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—	—	—
Baldcypress	541,648	31,787	56,318	74,136	79,157	93,634	70,627	50,260	34,884	43,714	7,131
Pondcypress	1,787,115	232,808	324,255	358,616	318,798	244,708	136,624	72,778	43,597	48,897	6,034
Cedars	120,576	8,635	11,662	19,787	20,634	22,032	13,320	9,588	7,736	6,606	576
Total softwoods	9,424,434	1,571,700	1,867,428	1,602,653	1,416,220	1,178,211	776,631	438,859	269,451	279,901	23,380
Hardwood											
Select white oaks	30,372	2,819	2,278	2,724	4,084	3,135	3,721	3,738	3,726	2,885	1,262
Select red oaks	1,606	—	375	—	—	588	—	—	—	643	—
Chestnut oak	—	—	—	—	—	—	—	—	—	—	—
Other white oaks	442,672	10,985	17,196	16,758	16,278	27,094	39,459	35,516	38,877	129,515	110,994
Other red oaks	1,373,697	125,485	139,558	179,309	207,449	169,803	136,057	118,820	90,162	157,159	49,895
Hickory	121,820	7,098	6,104	13,278	10,361	19,523	15,801	16,622	10,516	20,679	1,838
Yellow birch	—	—	—	—	—	—	—	—	—	—	—
Hard maple	12,988	720	1,742	702	1,110	2,086	608	1,937	625	3,458	—
Soft maple	445,124	37,323	57,121	69,996	59,327	70,499	50,096	35,763	27,968	32,836	4,195
Beech	7,480	307	419	584	—	974	—	1,044	1,042	2,226	884
Sweetgum	563,447	49,646	59,734	94,611	91,276	92,973	63,927	39,911	31,506	37,115	2,748
Tupelo and blackgum	1,484,350	175,010	213,867	230,301	244,745	218,045	157,698	103,574	54,756	72,398	13,956
Ash	338,775	33,235	41,687	61,328	58,186	39,976	35,349	30,110	16,458	21,955	491
Cottonwood	283	—	283	—	—	—	—	—	—	—	—
Basswood	13,113	363	1,302	1,089	925	2,482	2,728	1,819	567	1,838	—
Yellow-poplar	83,010	6,265	5,589	12,687	10,322	10,190	10,089	9,825	8,249	8,614	1,180
Bay and magnolia	853,702	121,465	135,398	138,534	139,244	112,879	75,331	53,705	27,470	44,297	5,379
Black cherry	21,296	4,317	5,663	4,287	1,889	2,062	1,653	1,046	379	—	—
Black walnut	—	—	—	—	—	—	—	—	—	—	—
Sycamore	9,542	—	453	—	889	1,107	530	1,867	1,210	1,836	1,650
Black locust	—	—	—	—	—	—	—	—	—	—	—
Elm	85,244	6,002	10,708	12,198	8,103	14,826	11,215	7,727	4,273	9,455	737
Other Eastern hardwoods	53,476	6,933	7,867	7,250	8,971	8,899	6,182	2,106	3,045	2,223	—
Total hardwoods	5,941,997	587,973	707,344	845,636	863,159	797,141	610,444	465,130	320,829	549,132	195,209
All species	15,366,431	2,159,673	2,574,772	2,448,289	2,279,379	1,975,352	1,387,075	903,989	590,280	829,033	218,589

Table 36—Volume of sawtimber on timberland, by species and diameter class, Florida, 1995

Species	All classes	Diameter class (inches at breast height) 9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
				Thousand board feet					
Softwood									
Longleaf pine	4,709,463	749,730	1,292,944	1,346,166	835,756	299,038	127,503	58,326	—
Slash pine	10,599,513	2,770,781	2,427,358	2,029,626	1,480,234	949,718	503,570	422,752	15,474
Shortleaf pine	188,709	6,974	23,098	40,629	50,947	22,978	20,187	23,896	—
Loblolly pine	3,416,601	378,801	480,139	511,735	533,075	424,379	417,221	622,294	48,957
Pond pine	646,053	99,253	127,925	157,491	107,824	68,750	34,811	49,999	—
Virginia pine	—	—	—	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—	—	—	—
Spruce pine	144,622	7,334	11,599	20,815	21,451	27,143	23,169	27,461	5,650
Sand pine	1,026,186	290,592	274,179	206,723	144,537	63,143	36,987	10,025	—
Eastern white pine	—	—	—	—	—	—	—	—	—
Eastern hemlock	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—
Baldcypress	2,013,648	223,840	299,148	408,030	338,814	257,883	187,702	251,973	46,258
Pondcypress	5,060,408	1,126,019	1,245,455	1,088,991	665,219	377,228	236,734	282,337	38,425
Cedars	506,336	77,445	93,980	113,612	73,146	55,402	46,709	42,161	3,881
Total softwoods	28,311,539	5,730,769	6,275,825	5,923,818	4,251,003	2,545,662	1,634,593	1,791,224	158,645
Hardwood									
Select white oaks	104,920	—	13,932	12,506	16,525	17,970	19,012	16,580	8,395
Select red oaks	6,074	—	—	2,628	—	—	—	3,446	—
Chestnut oak	—	—	—	—	—	—	—	—	—
Other white oaks	1,979,374	—	56,387	107,149	169,771	163,302	187,360	670,284	625,121
Other red oaks	4,480,354	—	793,328	737,889	650,162	603,536	481,570	900,692	313,177
Hickory	447,621	—	35,263	79,763	71,740	80,977	54,334	114,338	11,206
Yellow birch	—	—	—	—	—	—	—	—	—
Hard maple	44,337	—	3,694	8,097	2,678	8,901	3,036	17,931	—
Soft maple	1,162,297	—	193,894	268,769	212,000	162,062	133,840	168,190	23,542
Beech	25,002	—	—	3,707	—	4,127	4,227	9,193	3,748
Sweetgum	1,656,633	—	325,874	397,349	307,831	209,350	175,097	222,811	18,321
Tupelo and blackgum	3,591,270	—	797,699	849,023	692,033	493,474	275,745	397,516	85,780
Ash	840,785	—	190,389	153,221	152,742	141,248	82,575	117,607	3,003
Cottonwood	—	—	—	—	—	—	—	—	—
Basswood	45,289	—	3,205	9,716	11,712	8,444	2,757	9,455	—
Yellow-poplar	292,057	—	37,610	43,332	49,677	52,720	47,106	53,492	8,120
Bay and magnolia	1,852,308	—	462,093	434,959	317,981	246,727	131,470	228,384	30,694
Black cherry	29,701	—	6,528	8,528	7,572	5,104	1,969	—	—
Black walnut	—	—	—	—	—	—	—	—	—
Sycamore	43,748	—	3,039	4,150	2,231	8,656	5,981	9,919	9,772
Black locust	—	—	—	—	—	—	—	—	—
Elm	241,058	—	27,757	58,139	47,940	35,219	20,342	47,609	4,052
Other Eastern hardwoods	132,863	—	30,971	35,890	27,736	9,991	15,912	12,363	—
Total hardwoods	16,975,691	—	2,981,663	3,214,815	2,740,331	2,251,808	1,642,333	2,999,810	1,144,931
All species	45,287,230	5,730,769	9,257,488	9,138,633	6,991,334	4,797,470	3,276,926	4,791,034	1,303,576

Table 37—Volume of sawtimber on timberland, by species, size class, and tree grade, Florida, 1995

Species	All size classes					Trees 15.0 inches d.b.h. and larger				
	All grades	Tree grade 1	2	3	4	All grades	Tree grade 1	2	3	4
	Thousand board feet									
Softwood										
Yellow pines[a]	20,731,147	5,660,914	5,546,265	9,523,968	—	7,477,255	3,082,412	1,987,942	2,406,901	—
Eastern white pine[b]	—	—	—	—	—	—	—	—	—	—
Spruce and fir[b]	—	—	—	—	—	—	—	—	—	—
Cypress[c]	7,074,056	1,229,713	2,127,296	3,693,329	23,718	2,682,573	1,229,713	1,080,307	367,267	5,286
Other Eastern softwoods[b]	506,336	107,291	167,663	204,829	26,553	221,299	76,079	75,460	66,532	3,228
Total	28,311,539	6,997,918	7,841,224	13,422,126	50,271	10,381,127	4,388,204	3,143,709	2,840,700	8,514
Hardwood[c]										
Select white and red oaks	110,994	13,838	47,802	42,165	7,189	81,928	13,838	47,802	17,181	3,107
Other white and red oaks	6,459,728	745,961	1,783,675	3,355,877	574,215	4,764,975	745,961	1,620,830	2,086,031	312,153
Hickory	447,621	76,831	177,849	182,413	10,528	332,595	76,831	150,456	94,780	10,528
Yellow birch	—	—	—	—	—	—	—	—	—	—
Hard maple	44,337	—	13,161	18,414	12,762	32,546	—	10,886	14,720	6,940
Sweetgum	1,656,633	199,259	656,253	736,118	65,003	933,410	199,259	480,177	217,671	36,303
Ash, walnut, and black cherry	870,486	62,710	274,949	504,396	28,431	511,820	62,710	224,301	208,858	15,951
Yellow-poplar	292,057	47,007	129,609	107,783	7,658	211,115	47,007	115,618	48,490	—
Other Eastern hardwoods	7,093,835	636,585	2,204,479	3,977,131	275,640	3,910,824	636,585	1,621,312	1,476,870	176,057
Total	16,975,691	1,782,191	5,287,777	8,924,297	981,426	10,779,213	1,782,191	4,271,382	4,164,601	561,039
All species	45,287,230	8,780,109	13,129,001	22,346,423	1,031,697	21,160,340	6,170,395	7,415,091	7,005,301	569,553

[a] For yellow pines, tree grade is based on "Southern Pine Tree Grades for Yard and Structural Lumber," Research Paper SE-40, published by the Southeastern Forest Experiment Station, Asheville, NC, 1968. Tree grade 4 does not apply to yellow pine.

[b] For other softwoods (excluding cypress), tree grade is based on "Tree Grades for Eastern White Pine," Research Paper NE-214, published by the Northeastern Forest Experiment Station, Radnor, PA, 1971.

[c] For hardwoods and cypress, tree grades 1, 2, and 3 are based on "Hardwood Tree Grades for Factory Lumber," Research Paper NE-333, published by the Northeastern Forest Experiment Station, Radnor, PA, 1976. Grade 4 trees are sawtimber trees not qualifying as tree grades 1, 2, or 3. The butt log of these trees qualify as construction (tie and timber) logs based on "A Guide to Hardwood Log Grading (revised)," General Technical Report NE-1, published by the Northeastern Forest Experiment Station, Radnor, PA, 1971.

Table 38—Cubic volume in the merchantable saw-log portion of sawtimber trees on timberland, by species and diameter class, Florida, 1995

Species	All classes	Diameter class (inches at breast height) 9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
				Thousand cubic feet					
Softwood									
Longleaf pine	854,166	152,308	245,480	238,899	140,632	48,288	19,849	8,710	—
Slash pine	1,991,009	597,446	478,970	367,748	251,572	153,518	77,894	61,792	2,069
Shortleaf pine	33,127	1,494	4,584	7,511	8,893	3,848	3,228	3,569	—
Loblolly pine	595,730	82,201	95,684	93,417	91,891	69,312	65,205	91,387	6,633
Pond pine	119,666	21,285	25,594	29,254	18,849	11,503	5,566	7,615	—
Virginia pine	—	—	—	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—	—	—	—
Spruce pine	24,703	1,445	2,218	3,756	3,766	4,590	3,799	4,289	840
Sand pine	192,348	60,477	53,035	37,013	24,366	10,182	5,762	1,513	—
Eastern white pine	—	—	—	—	—	—	—	—	—
Eastern hemlock	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—
Baldcypress	397,719	53,017	66,554	83,889	65,213	47,179	33,063	41,885	6,919
Pondcypress	1,073,540	276,256	279,519	224,882	128,512	69,323	41,850	47,305	5,893
Cedars	92,254	16,025	18,582	20,829	12,827	9,326	7,582	6,513	570
Total softwoods	5,374,262	1,261,954	1,270,220	1,107,198	746,521	427,069	263,798	274,578	22,924
Hardwood									
Select white oaks	19,538	—	2,856	2,538	3,256	3,397	3,465	2,777	1,249
Select red oaks	1,096	—	—	496	—	—	—	600	—
Chestnut oak	—	—	—	—	—	—	—	—	—
Other white oaks	360,953	—	11,961	22,267	34,261	31,786	35,404	120,401	104,873
Other red oaks	792,921	—	152,297	139,759	118,454	106,492	82,339	146,254	47,326
Hickory	83,204	—	7,385	16,138	13,836	14,999	9,686	19,400	1,760
Yellow birch	—	—	—	—	—	—	—	—	—
Hard maple	8,522	—	752	1,680	534	1,738	574	3,244	—
Soft maple	229,824	—	40,573	55,969	42,583	31,448	25,152	30,160	3,939
Beech	5,474	—	—	795	—	909	933	2,021	816
Sweetgum	302,896	—	63,967	76,675	56,809	36,938	29,819	35,968	2,720
Tupelo and blackgum	714,192	—	174,325	178,069	137,141	93,218	50,238	67,831	13,370
Ash	167,788	—	40,812	32,312	30,798	27,280	15,298	20,809	479
Cottonwood	—	—	—	—	—	—	—	—	—
Basswood	8,975	—	682	2,036	2,374	1,642	521	1,720	—
Yellow-poplar	50,921	—	7,295	8,254	8,954	9,082	7,807	8,361	1,168
Bay and magnolia	379,244	—	96,507	92,720	66,485	49,512	25,889	42,816	5,315
Black cherry	5,803	—	1,379	1,707	1,438	933	346	—	—
Black walnut	—	—	—	—	—	—	—	—	—
Sycamore	7,917	—	621	842	441	1,637	1,093	1,711	1,572
Black locust	—	—	—	—	—	—	—	—	—
Elm	46,971	—	5,695	11,894	9,520	6,774	3,813	8,591	684
Other Eastern hardwoods	24,364	—	6,024	6,867	5,101	1,845	2,595	1,932	—
Total hardwoods	3,210,603	—	613,131	651,018	531,985	419,630	294,972	514,596	185,271
All species	8,584,865	1,261,954	1,883,351	1,758,216	1,278,506	846,699	558,770	789,174	208,195

Table 39—Total volume of live trees on timberland, by species and diameter class, Florida, 1995

Species	All classes	Diameter class (inches at breast height) 1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9
						Thousand cubic feet						
Softwood												
Longleaf pine	1,277,909	16,545	40,205	68,652	100,632	211,755	305,837	283,532	163,031	55,128	22,448	10,144
Slash pine	5,987,966	139,008	596,533	1,364,846	1,348,345	877,744	601,433	435,837	290,172	174,454	87,580	69,695
Shortleaf pine	45,737	227	265	2,365	3,669	2,187	5,714	8,924	10,297	4,394	3,659	4,036
Loblolly pine	1,208,633	28,174	107,153	202,047	140,358	124,554	122,538	112,612	106,946	79,180	73,817	103,779
Pond pine	195,961	1,137	6,444	13,091	26,928	30,481	32,189	35,014	22,383	13,226	6,375	8,693
Virginia pine	—	—	—	—	—	—	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—	—	—	—	—	—	—
Spruce pine	36,208	672	470	1,330	4,652	2,067	2,788	4,452	4,391	5,264	4,315	4,857
Sand pine	796,887	48,584	123,506	202,636	170,537	89,610	68,681	44,840	28,475	11,728	6,576	1,714
Eastern white pine	—	—	—	—	—	—	—	—	—	—	—	—
Eastern hemlock	—	—	—	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—	—	—	—
Baldcypress	717,393	5,325	21,192	47,430	73,497	91,872	96,836	114,515	85,964	60,739	41,785	56,089
Pondcypress	2,795,319	84,277	213,515	409,528	466,569	483,704	416,375	315,953	177,768	94,684	56,140	66,639
Cedars	162,173	4,562	7,800	12,704	16,351	24,567	25,964	25,740	15,970	11,172	9,009	7,669
Total softwoods	13,224,186	328,511	1,117,083	2,324,629	2,351,538	1,938,541	1,678,355	1,381,419	905,397	509,969	311,704	333,315
Hardwood												
Select white oaks	43,804	800	2,758	4,774	3,205	3,458	5,678	3,924	4,613	4,617	4,590	3,810
Select red oaks	2,084	83	—	—	489	—	—	725	—	—	—	787
Chestnut oak	—	—	—	—	—	—	—	—	—	—	—	—
Other white oaks	1,222,010	28,275	56,969	82,380	62,573	67,160	70,946	74,327	100,328	86,777	88,678	272,427
Other red oaks	2,324,043	122,831	161,831	227,327	215,027	254,628	286,032	237,440	194,728	170,351	130,330	237,246
Hickory	171,910	3,615	4,103	12,657	10,358	18,407	14,002	25,315	21,724	20,359	13,450	25,670
Yellow birch	—	—	—	—	—	—	—	—	—	—	—	—
Hard maple	21,825	839	776	1,998	2,248	1,494	2,347	4,154	736	2,347	747	4,139
Soft maple	816,336	43,521	76,986	82,076	96,452	108,024	89,109	102,092	75,914	49,082	39,140	46,565
Beech	13,055	240	441	428	552	741	—	1,206	746	1,286	1,300	5,034
Sweetgum	784,953	31,881	55,823	77,176	77,735	115,110	107,967	110,316	75,041	47,761	36,265	45,484
Tupelo and blackgum	2,479,349	115,069	240,780	312,172	315,548	315,434	333,264	289,837	208,273	138,702	77,450	109,285
Ash	618,528	40,743	70,156	80,625	72,925	87,035	75,555	53,091	48,446	36,764	22,131	28,743
Cottonwood	835	90	—	—	353	—	—	—	—	—	—	392
Basswood	20,748	852	1,318	1,294	2,375	1,646	1,423	3,228	3,650	2,207	646	2,109
Yellow-poplar	104,347	1,805	4,321	8,383	7,154	14,635	11,759	11,530	11,360	11,043	9,560	11,475
Bay and magnolia	1,486,548	83,334	177,597	218,627	198,884	196,498	186,295	150,020	101,267	67,617	39,679	59,464
Black cherry	44,511	7,068	8,133	6,874	7,437	5,500	2,722	2,426	1,939	1,961	451	—
Black walnut	481	18	145	318	—	—	—	—	—	—	—	—
Sycamore	11,563	—	471	—	562	—	1,037	1,289	615	2,170	1,400	2,119
Black locust	—	—	—	—	—	—	—	—	—	—	—	—
Elm	150,741	5,453	16,383	14,201	16,594	18,987	14,388	18,301	15,545	10,813	6,306	12,359
Other Eastern hardwoods	844,330	157,309	178,356	152,673	100,858	88,627	52,343	39,110	25,115	19,498	14,056	12,217
Total hardwoods	11,162,001	643,826	1,057,347	1,283,983	1,191,329	1,297,384	1,254,867	1,128,331	890,040	673,355	486,179	879,325
All species	24,386,187	972,337	2,174,430	3,608,612	3,542,867	3,235,925	2,933,222	2,509,750	1,795,437	1,183,324	797,883	1,212,640

Table 40—Green weight of forest biomass on timberland, by species and diameter class, Florida, 1995

Species	All classes	Diameter class (inches at breast height) 1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
						Hundred thousand pounds							
Softwood													
Longleaf pine	1,000,186	13,317	34,287	48,239	76,238	163,671	240,230	224,374	129,673	43,956	18,071	8,130	—
Slash pine	4,636,747	102,618	552,756	988,598	1,029,887	676,693	465,710	337,639	224,571	135,075	67,736	53,683	1,781
Shortleaf pine	32,443	92	164	1,435	2,532	1,555	4,103	6,373	7,411	3,174	2,644	2,960	—
Loblolly pine	857,178	14,343	63,342	142,020	104,775	91,640	89,979	82,354	77,493	57,526	53,503	74,917	5,286
Pond pine	138,463	633	3,628	9,118	19,191	21,848	22,969	25,110	15,925	9,425	4,484	6,132	—
Virginia pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Spruce pine	25,160	497	436	725	3,048	1,420	1,982	3,107	3,044	3,731	3,070	3,437	663
Sand pine	543,614	36,794	101,140	121,729	111,405	60,898	47,279	30,806	19,815	8,031	4,558	1,159	—
Eastern white pine	—	—	—	—	—	—	—	—	—	—	—	—	—
Eastern hemlock	—	—	—	—	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—	—	—	—	—
Baldcypress	523,301	2,929	13,387	23,870	45,173	63,054	70,996	87,146	67,221	48,683	33,956	47,100	19,786
Pondcypress	1,710,742	45,977	133,945	179,019	254,977	296,634	277,085	220,980	128,836	70,385	42,582	51,965	8,357
Cedars	125,935	3,273	5,066	9,193	12,417	18,825	20,663	20,656	13,023	8,966	7,169	6,129	555
Total softwoods	9,593,769	220,473	908,151	1,523,946	1,659,643	1,396,238	1,240,996	1,038,545	687,012	388,952	237,773	255,612	36,428
Hardwood													
Select white oaks	35,970	644	2,081	3,310	2,638	2,809	4,820	3,273	3,757	3,876	3,904	3,429	1,429
Select red oaks	1,764	71	—	—	369	—	—	627	—	—	—	697	—
Chestnut oak	—	—	—	—	—	—	—	—	—	—	—	—	—
Other white oaks	1,106,709	21,334	42,584	46,057	48,774	57,706	64,280	68,655	94,698	82,775	84,418	265,002	230,426
Other red oaks	1,867,360	108,172	122,804	170,176	176,433	206,409	232,135	193,618	158,956	138,468	105,806	187,455	66,928
Hickory	142,185	3,145	3,638	8,863	8,109	14,605	11,331	20,996	18,304	17,267	11,449	22,427	2,051
Yellow birch	—	—	—	—	—	—	—	—	—	—	—	—	—
Hard maple	18,956	682	675	1,363	1,901	1,297	1,985	3,730	703	2,089	673	3,858	—
Soft maple	598,857	33,047	54,816	57,470	73,580	81,049	65,720	75,381	55,806	35,738	27,912	33,227	5,111
Beech	10,934	192	365	310	411	522	—	1,036	776	1,096	1,118	4,249	859
Sweetgum	569,001	21,471	37,048	49,526	55,032	83,040	79,453	82,514	57,258	36,524	27,884	35,660	3,591
Tupelo and blackgum	1,621,754	75,992	160,281	156,769	190,827	200,980	221,743	201,320	148,470	102,333	59,312	85,017	18,710
Ash	399,287	25,137	44,413	62,860	52,877	57,040	46,797	31,823	28,456	20,974	12,378	15,349	1,183
Cottonwood	622	61	—	—	257	—	—	—	—	—	—	304	—
Basswood	14,366	586	931	747	1,630	1,076	1,054	2,267	2,580	1,549	470	1,476	—
Yellow-poplar	73,797	1,326	2,903	4,933	4,860	10,338	8,396	8,342	8,131	8,064	7,031	8,454	1,019
Bay and magnolia	925,266	52,123	106,936	117,178	122,037	123,617	119,761	98,820	67,299	45,302	26,806	40,386	5,001
Black cherry	28,362	3,594	5,429	4,075	4,895	3,672	1,859	1,676	1,414	1,406	342	—	—
Black walnut	429	11	127	291	—	—	—	—	—	—	—	—	—
Sycamore	8,590	—	310	—	323	—	756	913	459	1,615	1,072	1,656	1,486
Black locust	—	—	—	—	—	—	—	—	—	—	—	—	—
Elm	101,077	4,007	11,423	9,002	10,966	12,585	9,645	12,362	10,141	7,434	4,260	8,291	961
Other Eastern hardwoods	725,218	136,335	167,986	131,759	89,796	77,482	41,739	31,255	17,896	13,162	8,624	7,336	1,848
Total hardwoods	8,250,504	487,930	764,750	824,689	845,715	934,227	911,474	838,608	675,104	519,672	383,459	724,273	340,603
All species	17,844,273	708,403	1,672,901	2,348,635	2,505,358	2,330,465	2,152,470	1,877,153	1,362,116	908,624	621,232	979,885	377,031

Table 41— Average net annual growth and removals of live timber and growing stock on timberland, by species, Florida, 1987-1994

Species	Live timber[a]		Growing stock	
	Net annual growth	Annual timber removals	Net annual growth	Annual timber removals
	Thousand cubic feet			
Softwood				
Yellow pines	490,008	433,155	488,724	431,436
Eastern white pine	—	—	—	—
Spruce and fir	—	—	—	—
Cypress	40,236	41,724	39,919	40,754
Other Eastern softwoods	3,122	476	3,110	443
Total softwoods	533,366	475,355	531,753	472,633
Hardwood				
Select white and red oaks	962	1,199	934	1,199
Other white and red oaks	80,390	48,997	68,010	39,534
Hickory	3,371	3,165	3,360	3,062
Yellow birch	—	—	—	—
Hard maple	353	475	475	379
Sweetgum	15,298	12,098	15,051	11,403
Ash, walnut, and black cherry	6,230	3,587	5,884	3,167
Yellow-poplar	3,318	1,258	3,262	1,147
Tupelo and blackgum	27,414	15,285	26,238	13,621
Bay and magnolia	25,368	8,839	23,585	7,881
Other Eastern hardwoods	20,807	13,824	14,082	6,693
Total hardwoods	183,511	108,727	160,881	88,086
All species	716,877	584,082	692,634	560,719

[a] Merchantable portion only.

Table 42— Average net annual growth and removals of saw timber on timberland, by species, Florida, 1987-1994

Species	Net annual growth	Annual timber removals
	Thousand board feet	
Softwood		
Yellow pines	1,225,727	1,103,554
Eastern white pine	—	—
Spruce and fir	—	—
Cypress	183,096	112,872
Other Eastern softwoods	13,388	1,469
Total softwoods	1,422,211	1,217,895
Hardwood		
Select white and red oaks	4,018	4,517
Other white and red oaks	254,823	127,522
Hickory	13,987	12,401
Yellow birch	—	—
Hard maple	1,635	1,291
Sweetgum	57,630	36,373
Ash, walnut, and black cherry	18,596	7,240
Yellow-poplar	10,768	3,350
Tupelo and blackgum	79,706	33,188
Bay and magnolia	58,303	19,200
Other Eastern hardwoods	43,501	19,957
Total hardwoods	542,967	265,039
All species	1,965,178	1,482,934

Table 43—Average annual removals of growing stock on timberland, by species and diameter class, Florida, 1987-1994

Species	All classes	Diameter class (inches at breast height) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
					Thousand cubic feet						
Softwood											
Yellow pines	431,436	70,019	122,058	99,723	58,297	35,849	21,118	11,467	5,579	6,946	380
Eastern white pine	—	—	—	—	—	—	—	—	—	—	—
Spruce and fir	—	—	—	—	—	—	—	—	—	—	—
Cypress	40,754	4,359	8,289	9,210	8,090	5,039	2,981	963	833	785	205
Other Eastern softwoods	443	113	67	—	—	95	168	—	—	—	—
Total softwoods	472,633	74,491	130,414	108,933	66,387	40,983	24,267	12,430	6,412	7,731	585
Hardwood											
Select white and red oaks	1,199	—	89	163	146	237	75	—	76	268	145
Other white and red oaks	39,534	3,767	4,750	4,566	4,698	4,561	4,662	3,496	2,419	5,252	1,363
Hickory	3,062	106	86	118	344	938	381	440	132	517	—
Yellow birch	—	—	—	—	—	—	—	—	—	—	—
Hard maple	379	—	—	77	67	71	—	88	—	76	—
Sweetgum	11,403	681	683	1,990	2,283	1,811	2,221	1,101	—	528	105
Ash, walnut, and black cherry	3,167	628	441	350	694	139	433	—	298	184	—
Yellow-poplar	1,147	305	225	44	—	73	—	—	—	500	—
Tupelo and blackgum	13,621	1,440	2,212	2,309	1,717	1,876	1,276	444	905	1,442	—
Bay and magnolia	7,881	985	656	1,548	1,102	1,233	902	575	424	356	100
Other Eastern hardwoods	6,693	601	779	642	734	1,274	694	1,119	476	374	—
Total hardwoods	88,086	8,513	9,921	11,807	11,785	12,213	10,644	7,263	4,730	9,497	1,713
All species	560,719	83,004	140,335	120,740	78,172	53,196	34,911	19,693	11,142	17,228	2,298

Table 44— Average annual mortality of live timber, growing stock, and sawtimber on timberland, by species, Florida, 1987-1994

Species	Live timber[a]	Growing stock	Sawtimber
	Thousand cubic feet		*Thousand board feet*
Softwood			
Yellow pines	45,735	44,963	156,073
Eastern white pine	—	—	—
Spruce and fir	—	—	—
Cypress	8,597	7,653	13,603
Other Eastern softwoods	1,261	1,086	4,690
Total softwoods	55,593	53,702	174,366
Hardwood			
Select white and red oaks	346	346	1,114
Other white and red oaks	22,016	14,153	50,040
Hickory	906	628	2,327
Yellow birch	—	—	—
Hard maple	257	—	—
Sweetgum	5,161	4,569	14,021
Ash, walnut, and black cherry	6,547	4,383	11,837
Yellow-poplar	456	429	1,575
Tupelo and blackgum	10,693	7,830	18,911
Bay and magnolia	13,276	10,116	27,496
Other Eastern hardwoods	23,459	9,556	29,506
Total hardwoods	83,117	52,010	156,827
All species	138,710	105,712	331,193

[a] Merchantable portion only.

Table 45—Change in number of live trees on timberland, by species group, survey completion date, and diameter class, Florida

Species group and year	All classes	Diameter class (inches at breast height) 1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0 and larger
					Thousand trees				
Yellow pine									
1987	2,277,233	777,936	647,330	429,137	220,314	97,458	54,748	28,208	22,102
1995	2,635,916	903,832	798,294	503,379	232,217	94,842	50,641	28,112	24,599
Change	358,683	125,896	150,964	74,242	11,903	-2,616	-4,107	-96	2,497
Other softwood									
1987	843,420	372,471	183,153	111,145	72,940	47,123	25,884	15,093	15,611
1995	693,937	299,046	156,820	87,486	59,237	39,740	24,283	14,381	12,944
Change	-149,483	-73,425	-26,333	-23,659	-13,703	-7,383	-1,601	-712	-2,667
Hardwood									
1987	4,391,193	2,793,826	843,727	332,541	167,817	99,909	61,597	35,722	56,054
1995	4,304,187	2,737,863	823,220	330,245	161,667	98,261	60,466	38,170	54,295
Change	-87,006	-55,963	-20,507	-2,296	-6,150	-1,648	-1,131	2,448	-1,759

Table 46— Land area, by land use class, major forest type, and survey completion date, Florida

Land use class	Survey completion date 1980	1987	1995	Change 1987-1995
		Acres		
Forest land				
Timberland				
Pine and oak-pine types	9,193,657	8,737,336	8,916,768	179,432
Hardwood types	6,470,520	6,245,271	5,733,892	-511,379
Total	15,664,177	14,982,607	14,650,660	-331,947
Reserved timberland	411,844	403,569	522,676	119,107
Woodland	1,057,868	1,162,836	1,047,861	-114,975
Total forest land	17,133,889	16,549,012	16,221,197	-327,815
Nonforest land				
Cropland	3,784,515	3,937,202	3,616,344	-320,858
Pasture and range	6,991,503	6,324,067	5,925,691	-398,376
Other	6,622,456	7,721,452	8,692,576	971,124
Total	17,398,474	17,982,721	18,183,805	201,084
All land[a]	34,532,363	34,531,733	34,405,002	-126,731

[a] Excludes all water areas.

Table 47—Volume of sawtimber, growing stock, and live timber on timberland, by species group, survey completion date, and diameter class, Florida

Species group and year	All classes	Diameter class (inches at breast height) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0 and larger
					SAWTIMBER (in thousand board feet)					
Softwood										
1980	25,288,908	—	—	5,915,872	6,617,620	5,129,410	3,207,653	1,864,608	1,091,351	1,462,394
1987	26,811,055	—	—	5,638,755	6,213,683	5,424,094	3,636,648	2,311,164	1,413,880	2,172,831
1995	28,311,539	—	—	5,730,769	6,275,825	5,923,818	4,251,003	2,545,662	1,634,593	1,949,869
Hardwood										
1980	12,862,300	—	—	—	2,277,459	2,446,847	1,964,785	1,670,557	1,310,429	3,192,223
1987	14,956,318	—	—	—	2,566,240	2,564,011	2,398,373	1,913,551	1,513,551	4,000,592
1995	16,975,691	—	—	—	2,981,663	3,214,815	2,740,331	2,251,808	1,642,333	4,144,741
					GROWING STOCK (in thousand cubic feet)					
Softwood										
1980	8,940,399	1,445,945	1,775,379	1,709,753	1,547,213	1,067,882	617,849	341,641	192,076	242,661
1987	9,005,689	1,386,648	1,776,304	1,613,768	1,432,572	1,106,036	683,945	411,512	241,959	352,945
1995	9,424,434	1,571,700	1,867,428	1,602,653	1,416,220	1,178,211	776,631	438,859	269,451	303,281
Hardwood										
1980	4,874,279	464,613	585,890	677,110	744,949	669,449	482,913	376,609	277,797	594,949
1987	5,416,430	518,512	649,543	750,311	779,320	667,542	563,875	419,598	314,177	753,552
1995	5,941,997	587,973	707,344	845,636	863,159	797,141	610,444	465,130	320,829	744,341
					LIVE TIMBER[a] (in thousand cubic feet)					
Softwood										
1980	9,088,634	1,482,349	1,808,645	1,734,238	1,561,961	1,077,478	624,841	343,672	193,460	261,990
1987	9,131,725	1,408,743	1,802,601	1,635,810	1,444,883	1,113,769	691,214	417,415	244,025	373,265
1995	9,525,645	1,593,047	1,886,820	1,617,098	1,425,990	1,185,398	782,932	441,972	270,448	321,940
Hardwood										
1980	6,470,923	741,394	841,727	905,146	928,757	812,440	601,657	458,602	353,670	827,530
1987	7,007,008	779,954	879,800	962,037	962,438	804,803	675,937	511,612	384,867	1,045,560
1995	7,490,035	851,992	920,663	1,046,380	1,025,876	929,492	734,714	555,242	400,114	1,025,562

[a] Merchantable volume.

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Brown, Mark J. 1996. Forest statistics for Florida, 1995. Resour. Bull. SRS-6. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 48 p.

Since 1987, area of timberland in Florida decreased by 2 percent to less than 14.7 million acres. Timberland under nonindustrial private forest ownership increased 2 percent to 7.2 million acres, and public ownership increased 16 percent to 2.8 million acres, but timberland controlled by forest industry decreased by 16 percent to 4.6 million acres. Pine plantations now account for 32 percent of the State's timberland, the highest proportion in the South. Volume of softwood growing stock increased almost 5 percent to 9.4 billion cubic feet, and volume of hardwood growing stock increased nearly 10 percent to more than 5.9 billion cubic feet. Net annual growth of softwood growing stock increased 9 percent to 532 million cubic feet, and that of hardwood increased 14 percent to 161 million cubic feet. Average annual removals of softwood growing stock changed little at 473 million cubic feet, whereas that for hardwood increased 33 percent to 88 million cubic feet.

KEYWORDS: Timberland, ownership, forest type, harvest, regeneration, growing stock, volume, growth, removals, mortality.

Southern Research Station

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The Southern Research Station, headquartered in Asheville, North Carolina, is one of the seven regional Stations and the Forest Products Laboratory that make up the Forest Service research organization.

RESEARCH MISSION:

To acquire the knowledge, develop the technology, and disseminate the research findings required to manage the Southern forest resources in ways that satisfy demands of goods and services while maintaining a quality environment.